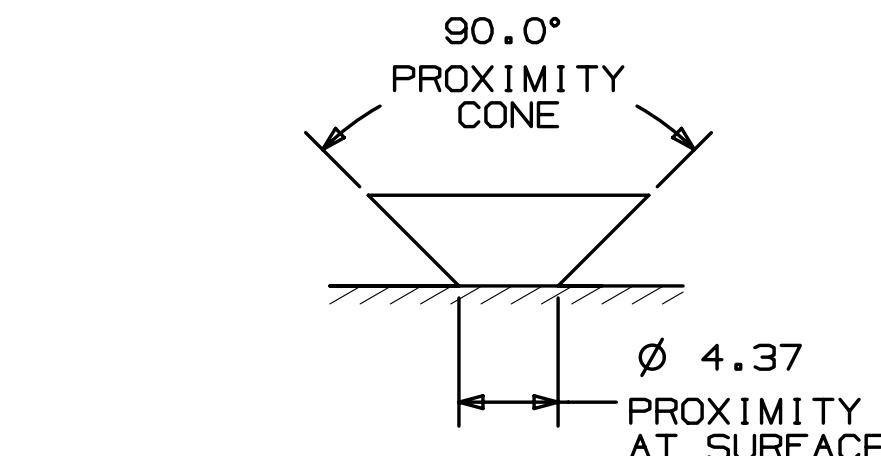
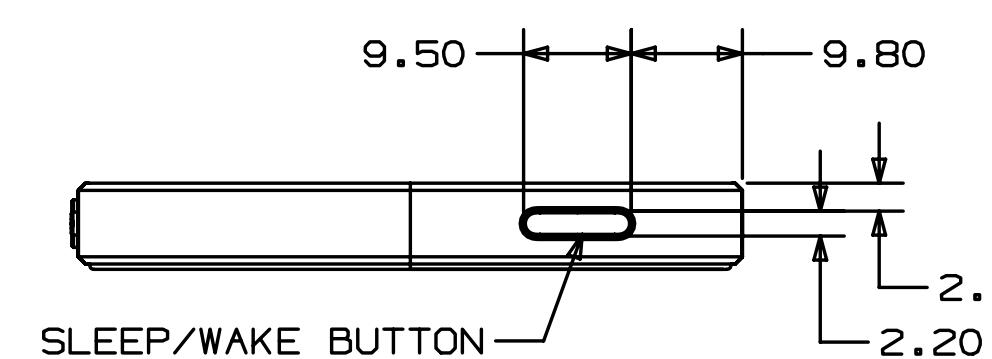


**\*NOTES\***

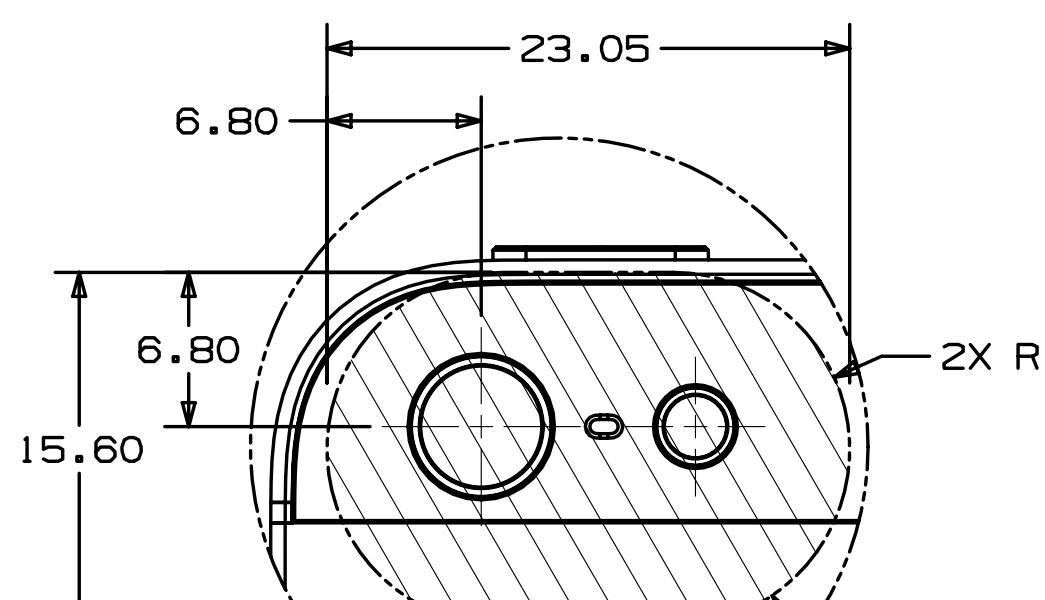
- 1 NO METAL CONTACT WITH iPhone 5 METAL.
  - 2 DO NOT OBSTRUCT THE ACOUSTIC OPENINGS: FRONT MIC, REAR MIC, EARPIECE, AND SPEAKER.
  - 3 DO NOT OBSTRUCT THE IMAGING FEATURES: FRONT CAMERA, REAR CAMERA, REAR FLASH.
  - 4 DO NOT OBSTRUCT THE PROXIMITY SENSOR OR ALS (AMBIENT LIGHT SENSOR).



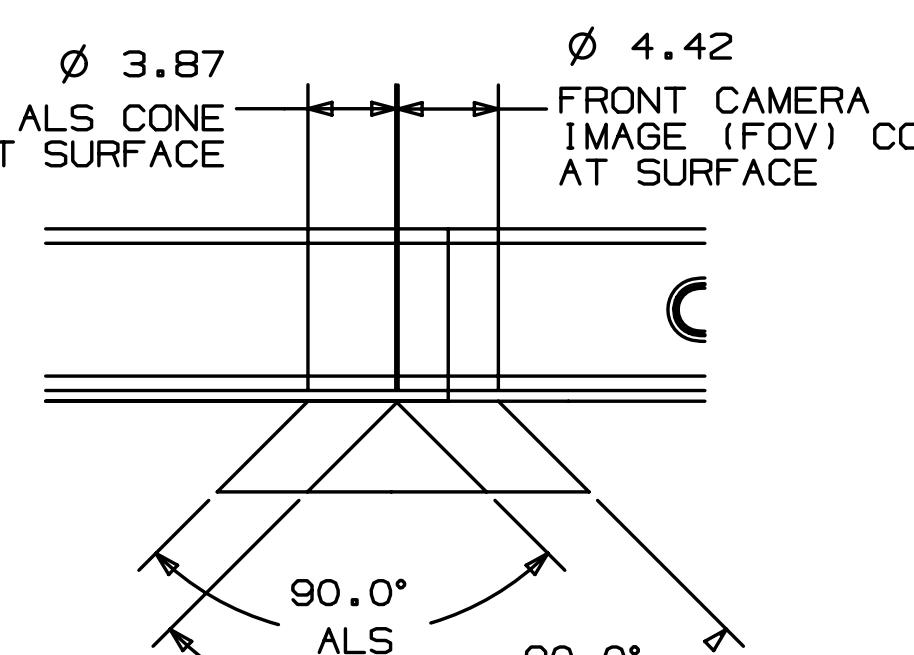
VIEW C-C  
SCALE 3:1



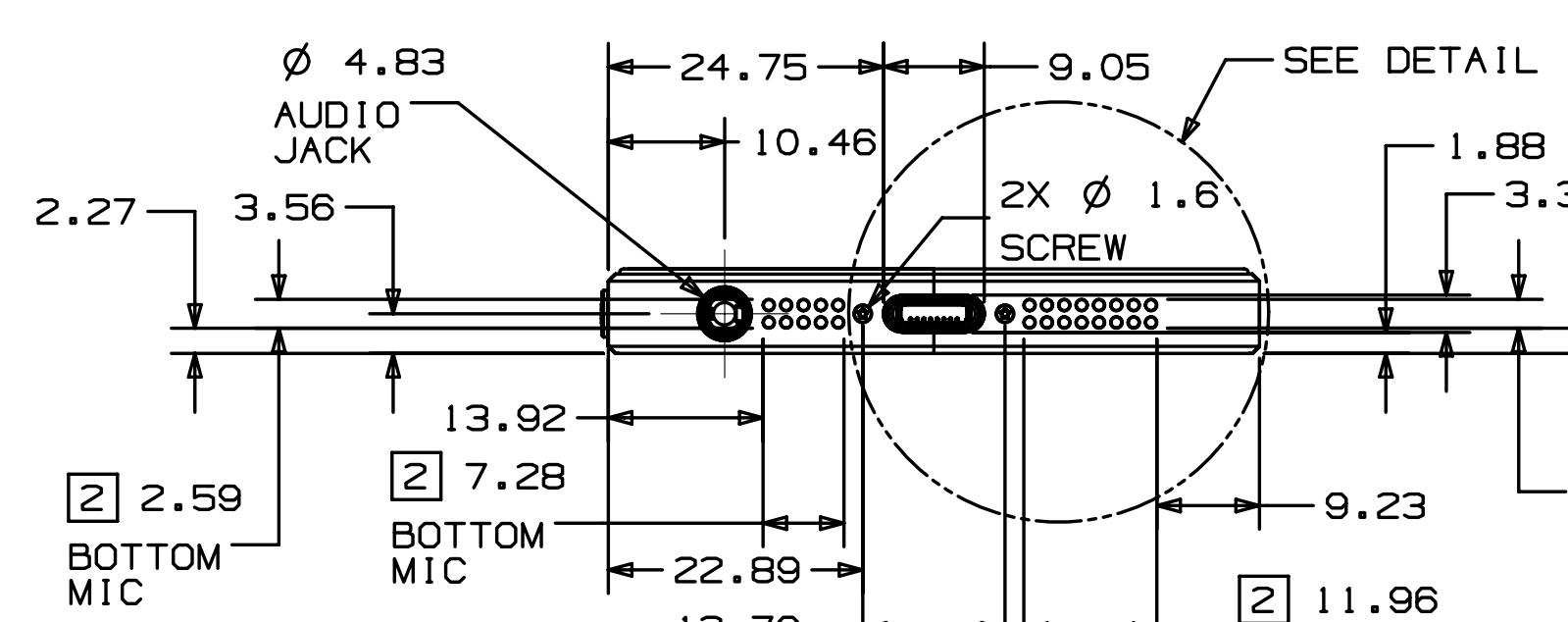
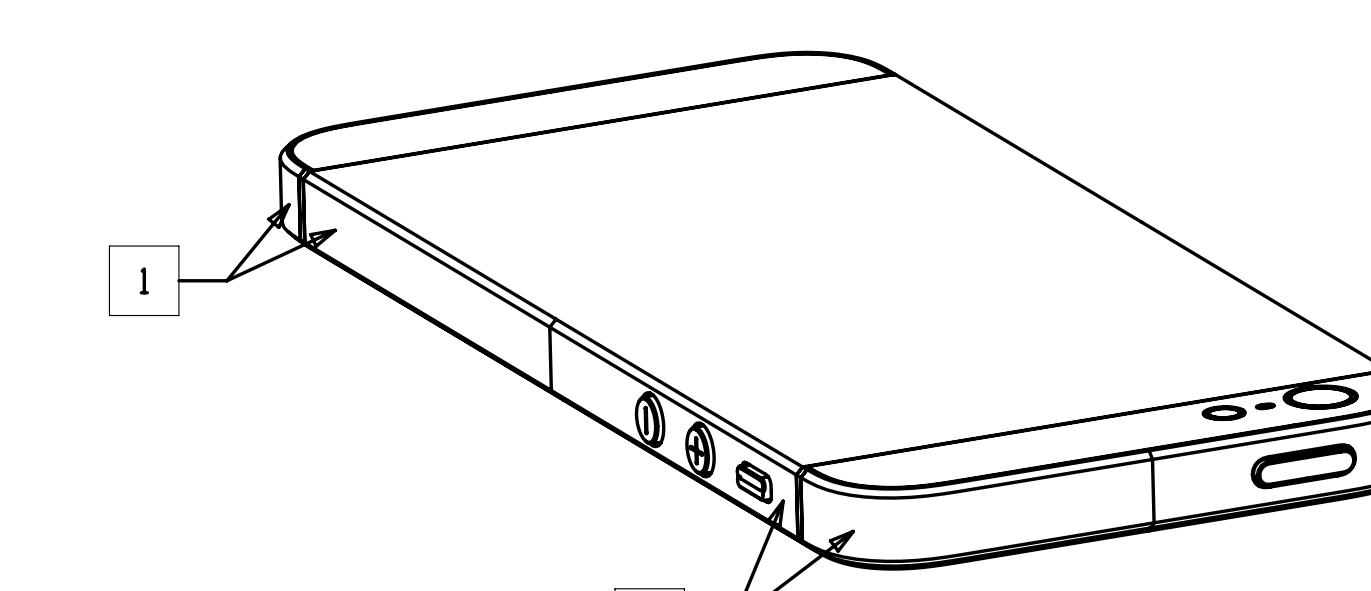
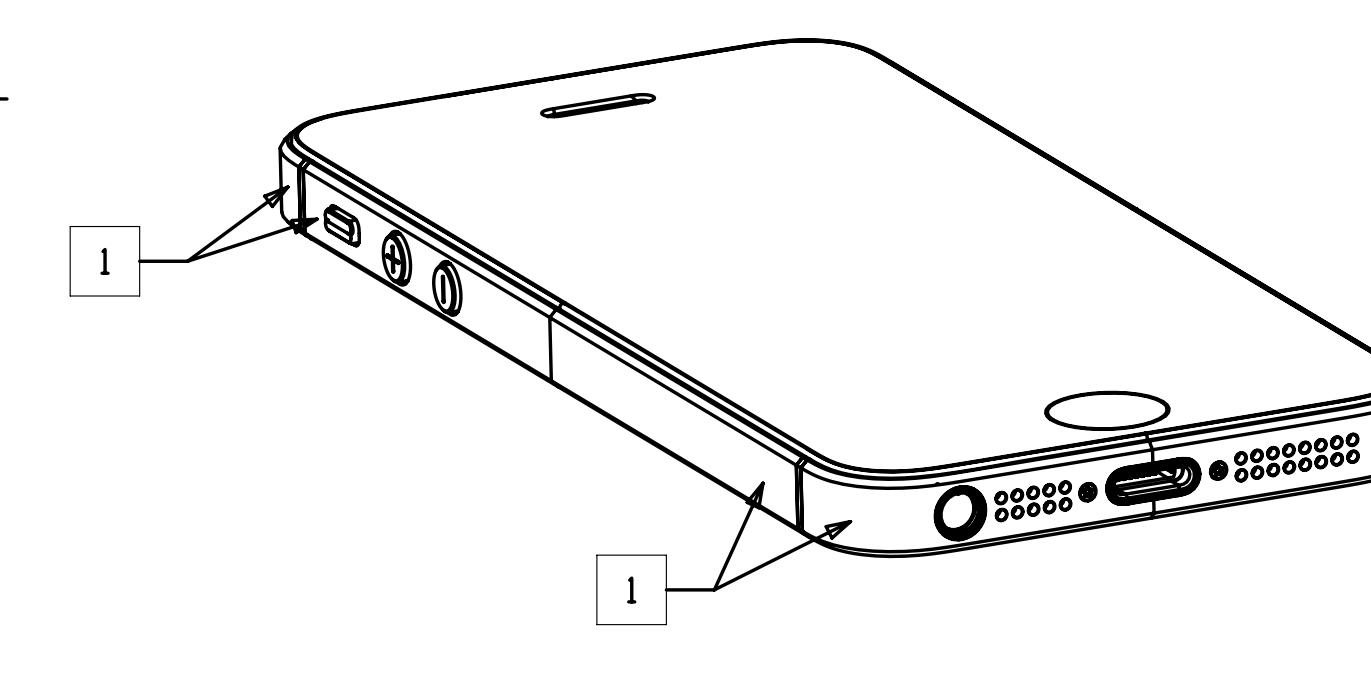
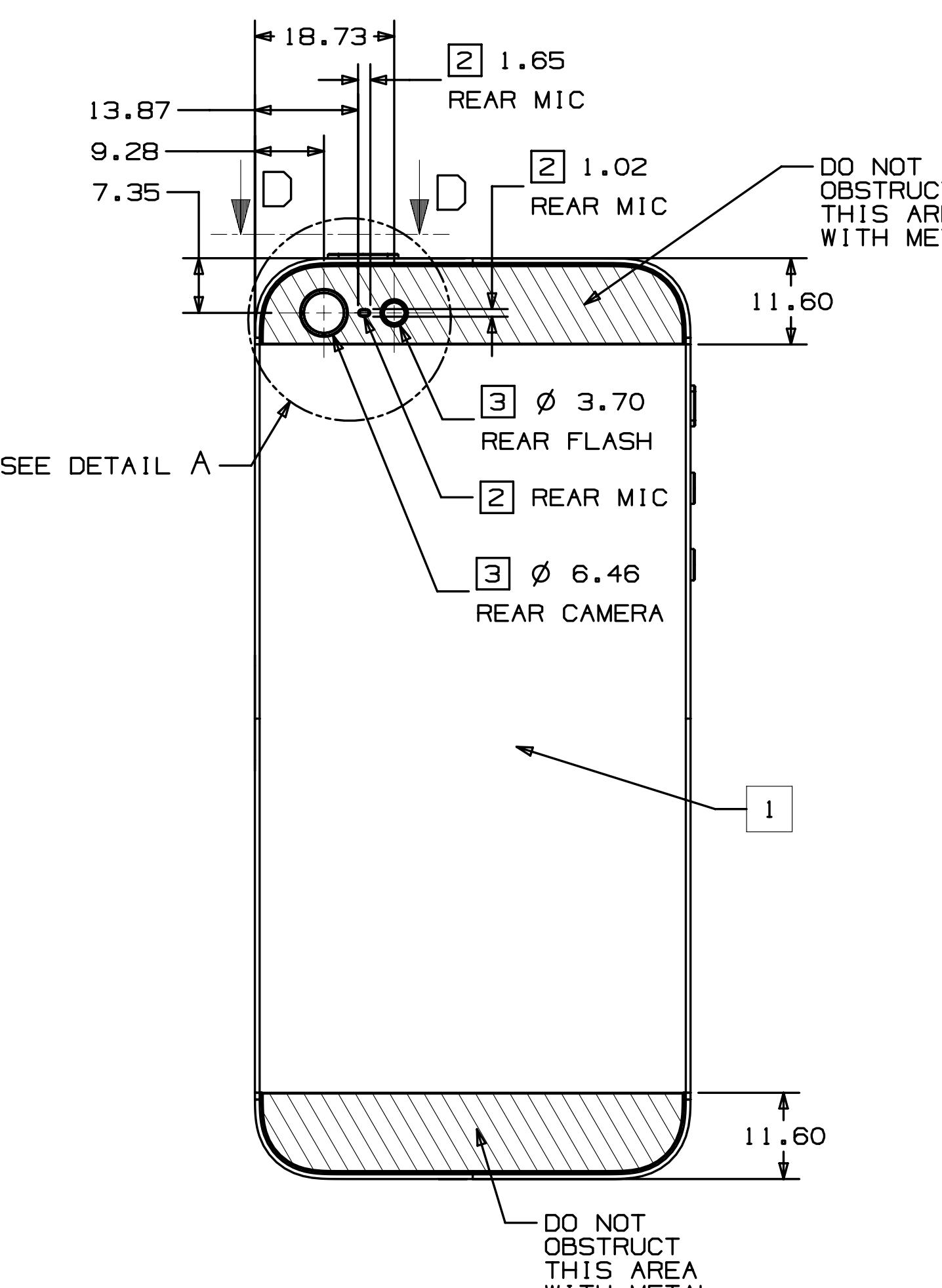
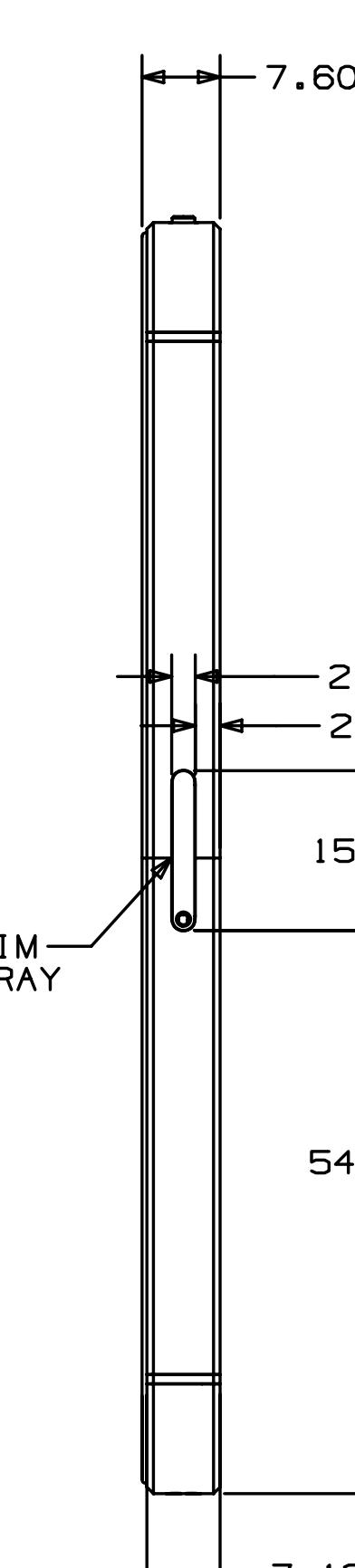
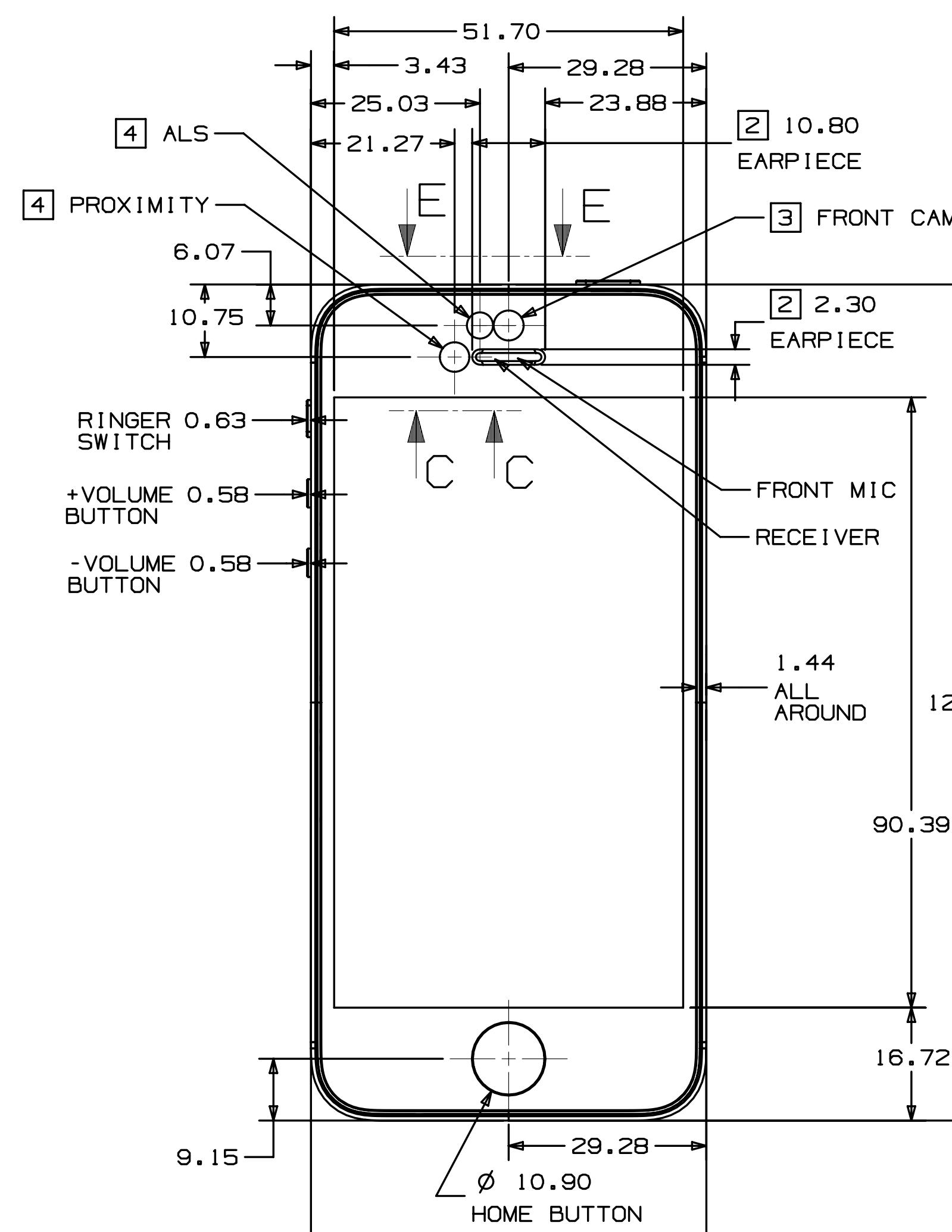
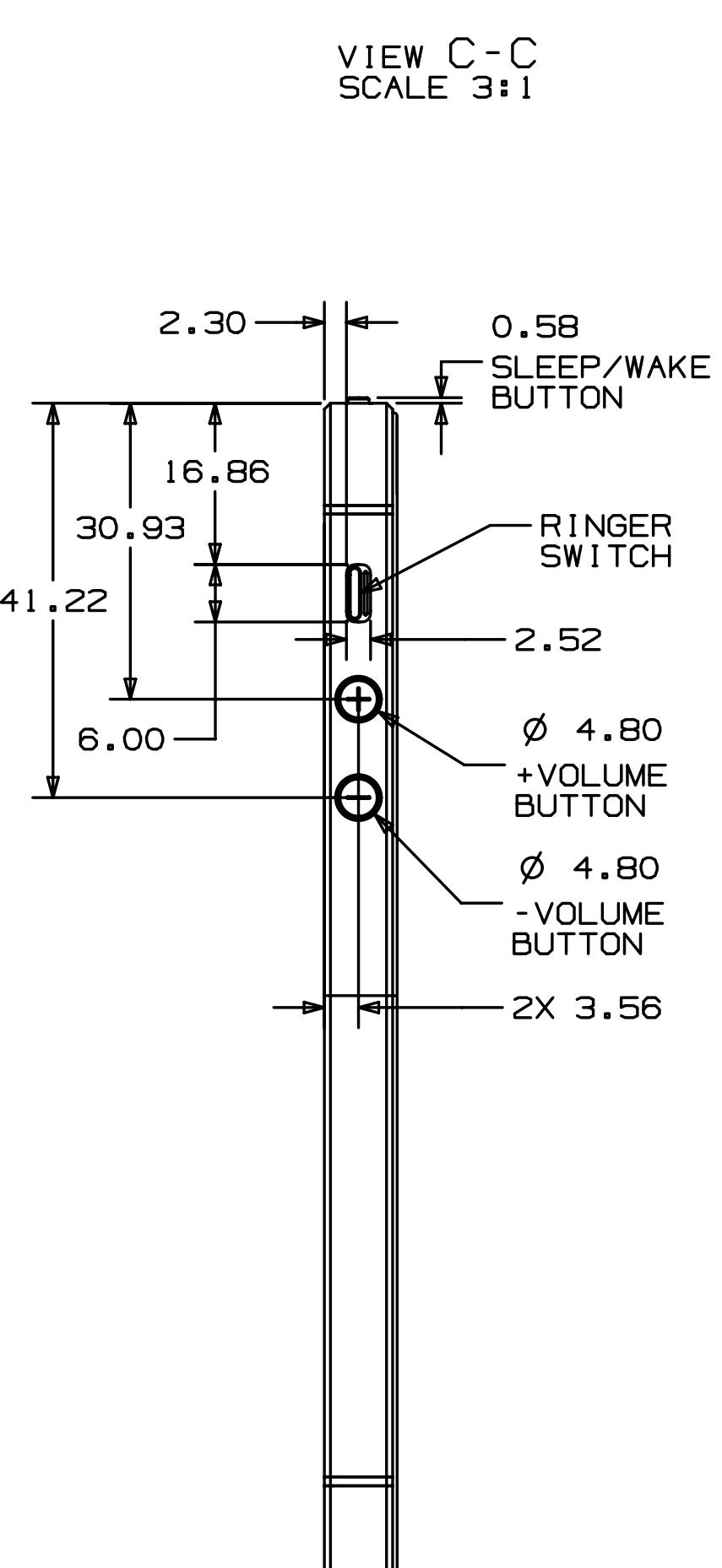
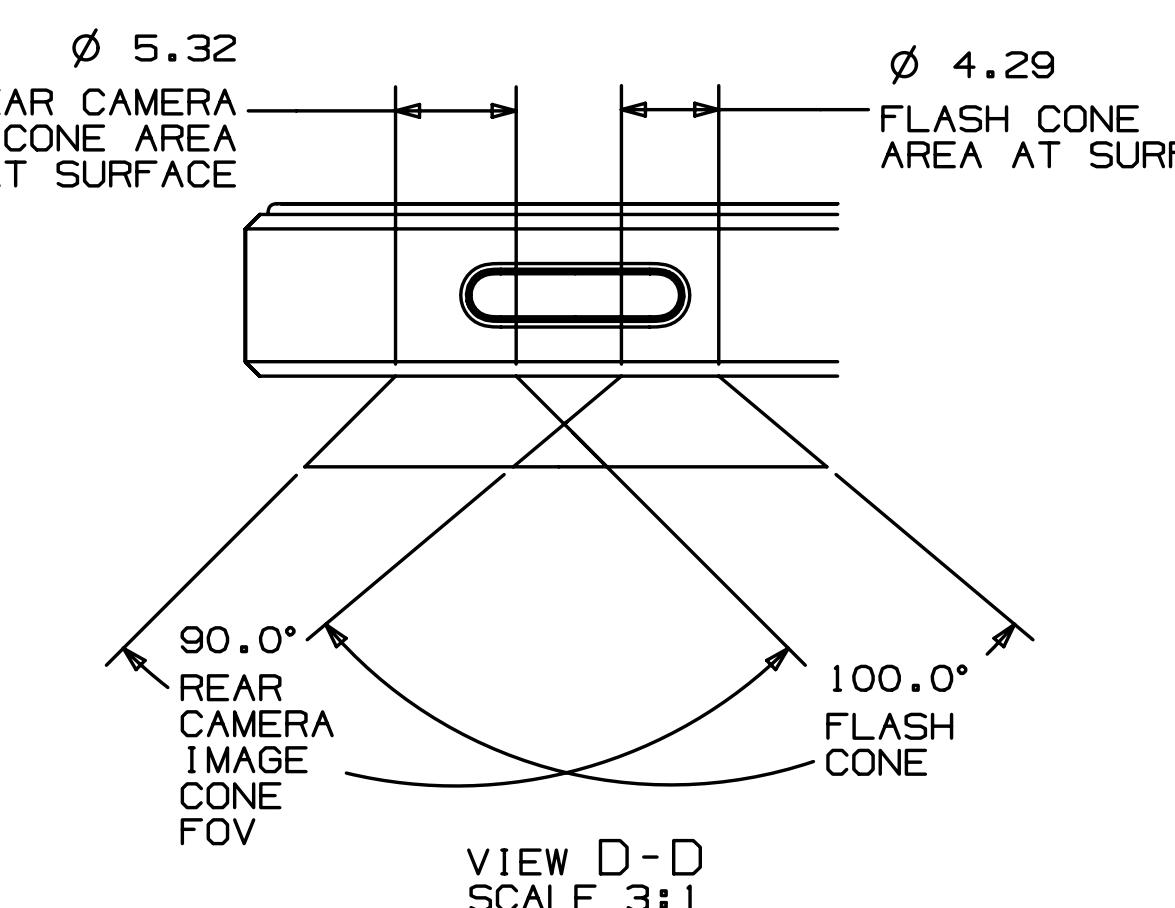
DETAIL  
SCALE 3



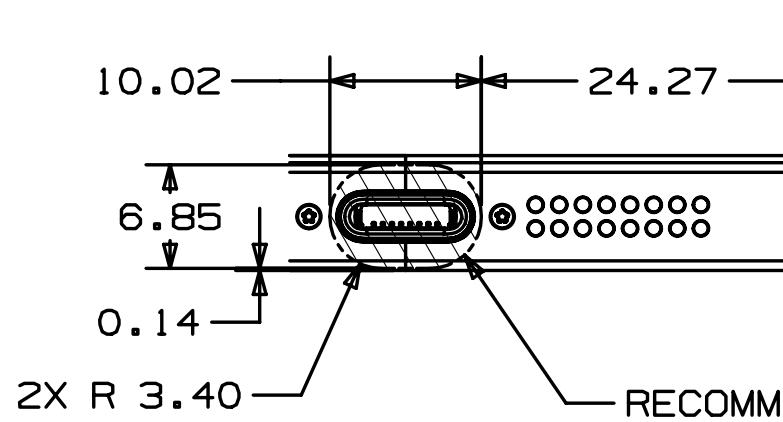
ED  
FOR REAR  
LASH/MIC  
F SURFACE



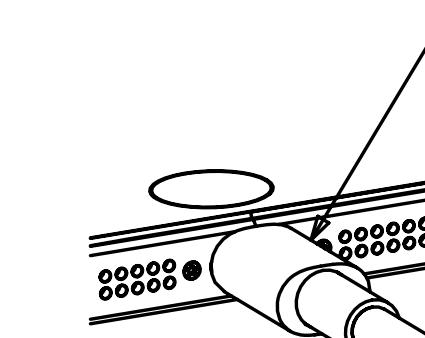
VIEW E-E  
SCALE 3:1



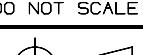
DETAIL  
SCALE

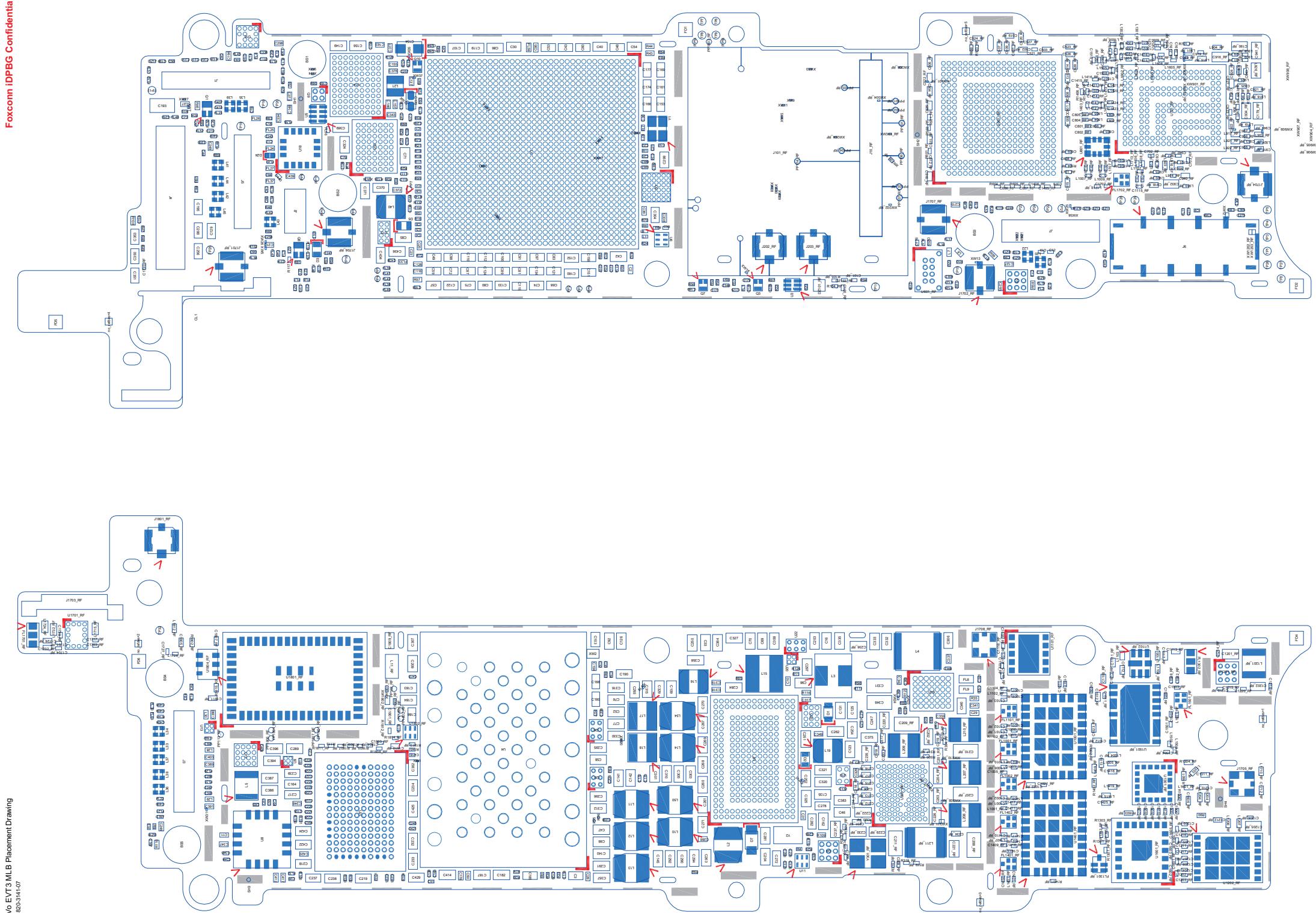


RECOMMENDED MATING  
CONNECTOR KEEPOUT AREA  
FLUSH TO BODY OUTWARD 14



RECOMMENDED MATING  
CONNECTOR KEEPOUT AREA  
FLUSH TO BODY OUTWARD 14.0  
(CONNECTOR SHOWN)

<b>METRIC</b>		 <b>Apple Inc.</b>
DRAFTER <b>APPLE INC.</b>	DATE <b>09/12/12</b>	NOTICE OF PROPRIETARY PROPERTY:  THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC.  ©2010 APPLE INC. ALL RIGHTS RESERVED. APPLE, THE APPLE LOGO, AND iPhone ARE TRADEMARKS OF APPLE INC., REGISTERED IN THE U.S. AND OTHER COUNTRIES.
DESIGNER <b>APPLE INC.</b>	DATE <b>09/12/12</b>	
DIMENSIONS ARE IN MILLIMETERS  TOLERANCES		TITLE  <b>I PHONE 5</b>
<b>X.X      <math>\pm 0.4</math></b> <b>X.XX     <math>\pm 0.20</math></b> <b>X.XXX    <math>\pm 0.100</math></b> <b>ANGLES <math>\pm 0.5^\circ</math></b>		DRAWING NUMBER
DO NOT SCALE DRAWINGS		REV.
	SIZE <b>D</b>	SCALE <b>NONE</b>
THIRD ANGLE PROJECTION		SHT <b>1</b> OF <b>1</b>



1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%.  
 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS.  
 3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.

REV	ECN	DESCRIPTION OF REVISION	CK APPD DATE
11	0001447874	ENGINEERING RELEASED	2012-05-02

# N41 SINGLE\_BRD EVT3

Mon Apr 30 16:28:35 2012

PDF PAGE	CSA PAGE	CONTENTS	SYNC	MASTER	DATE
2	2	H5P JTAG, USB ,PLL	N/A	N/A	
3	3	H5P GPIO & CONTROL	N/A	N/A	
4	4	H5P IO POWER	N/A	N/A	
5	5	H5P SOC/CPU/SRAM PWR	N/A	N/A	
6	6	H5P W/ NAND	N/A	N/A	
7	7	H5P VIDEO	N/A	N/A	
8	8	BUTTON CONNECTOR	N/A	N/A	
9	9	CS42L65 AUDIO CODEC (1/2)	N/A	N/A	
10	10	CS42L65 AUDIO CODEC (2/2)	N/A	N/A	
11	11	CG FLEX CONNECTOR	N/A	N/A	
12	12	AGATHA PMU(1/2)	N/A	N/A	
13	13	AGATHA PMU(2/2)	N/A	N/A	
14	14	ACCEL,GYRO,COMPASS,SPK AMP	N/A	N/A	
15	15	TRISTRAR	N/A	N/A	
16	16	DOCK CONNECTOR	N/A	N/A	
17	17	GRAPE & CONNECTOR	N/A	N/A	
18	18	LCM CONNECTOR	N/A	N/A	
19	19	STROBE & NEGATIVE RAIL	N/A	N/A	
20	20	CAM0 CONNECTOR	N/A	N/A	
21	21	BATTERY & RF INT.	N/A	N/A	
22	22	TEST POINTS	N/A	N/A	

SCH 051-9113  
 BRD 820-3141

MCO 056-4519

BOM 639-3259 {16GB}

BTR N41

BOM 639-3420 {32GB}

BST N41

BOM 639-3421 {64GB}

ULT N41

BOM 639-2456 {16GB}

BTR N42

BOM 639-3858 {32GB}

BST N42

BOM 639-3839 {64GB}

ULT N42

## N41 BOM CALLOUTS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
051-9113	1	N41 SINGLE_BRD SCHEMATIC	SCH	Y	?
820-3141	1	N41 SINGLE_BRD PCB	PCB	Y	?
825-6383	1	LABEL FOR N41 639-3259	EEEE_DW0G	Y	EEEE_16G
825-6383	1	LABEL FOR N41 639-3420	EEEE_DY6Q	Y	EEEE_32G
825-6383	1	LABEL FOR N41 639-3421	EEEE_DY6R	Y	EEEE_64G
825-6383	1	LABEL FOR N42 639-2456	EEEE_DVND	Y	EEEE_16G_N42
825-6383	1	LABEL FOR N41 639-3858	EEEE_F322	Y	EEEE_32G_N42
825-6383	1	LABEL FOR N41 639-3859	EEEE_F321	Y	EEEE_64G_N42

N41 = BAND 17 COMP

N42 = BAND 13 COMP

## NAND OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S0871	1	NAND_20NM,16GX8,MLC,PPN1.5	U4	?	NAND_16G
335S0872	1	NAND_20NM,32GX8,MLC,PPN1.5	U4	?	NAND_32G
335S0873	1	NAND_20NM,64GX8,MLC,PPN1.5	U4	?	NAND_64G

## RADIO\_MLB TDMA CAP OPTION

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
138S0711	3	10UF 0402 6.3V RANDOM	C235_RF,C236_RF,C237_RF	Y	?
138S0711	2	10UF 0402 6.3V RANDOM	C1201_RF,C1801_RF	Y	?

## INDUCTOR 607-XXXX SUBBOM GEN

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1547	4	IND_PWR_1.5OH,1.45A,111MOHM,2520	L10,L50,L14,L54	Y	CPU0_1_TDK_SUBBOM
152S1696	3	IND_PWR_2.2OH,1.45A,138MOHM,2520	L11,L12,L13	Y	SOC_CYNTEC_SUBBOM
152S1695	4	IND_PWR_1.5OH,1.45A,111MOHM,2520	L10,L50,L14,L54	Y	CPU0_1_CYNTEC_SUBBOM
152S1432	3	IND_PWR_2.2OH,1.45A,125MOHM,2520	L11,L12,L13	Y	SOC_TDK_SUBBOM

## INDUCTOR SUBBOM ADDITION

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
607-9979	1	CPU0_1_PWR IND SUBBOM	CPU_IND	Y	?
607-9980	1	SOC_PWR IND SUBBOM	SOC_IND	Y	?

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS
335S0895	335S0874	?	U601_RF	WINBOND ALT
197S0437	197S0410	?	Y301_RF	KYOCERA 19.2MHZ XTAL ALT
197S0409	197S0410	?	Y301_RF	RAKON 19.2MHZ XTAL ALT

## ALTERNATES

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:
138S0648	138S0652	?	?	4.7UF CERM 0402 6.3V
138S0703	138S0648	?	?	4.7UF CERM 0402 6.3V
138S0702	138S0657	?	?	4.3UF CERM 0610 4V
138S0697	138S0695	?	?	1UF CERM 0204 4V
138S0746	138S0705	?	?	10UF CERM 0402 10V
138S0739	138S0706	?	?	1UF CERM 0201 10V
197S0369	197S0392	?	?	TXC 32KHZ XTAL ALT
197S0399	197S0392	?	?	NDK 32KHZ XTAL ALT
155S0667	155S0583	?	?	PANASONIC CMC
107S0146	107S0208	?	?	TDK 10K NTC ALT
152S1696	152S1432	?	L2	CYNTEC 2.2UH IND ALT
152S1604	152S1518	?	L16	TDK 2.2UH IND ALT
152S1602	152S1518	?	L16	CYNTEC 2.2UH IND ALT
152S1602	152S1604	?	L19	CYNTEC 2.2UH IND ALT
311S0591	311S0273	?	?	74LVC1G32 OR GATE ALT
311S0548	311S0398	?	?	74AU1G08 AND GATE ALT
311S0560	311S0515	?	?	74LV2G07 BUFFER ALT
339S0177	339S0176	?	?	H5P ALT
339S0178	339S0176	?	?	H5P ALT
155S0773	155S0453	?	?	TAIYO ALT FERRITE

PART NUMBER	ALTERNATE FOR PART NUMBER	BOM OPTION	REF DES	COMMENTS:



<tbl\_r

D

D

C

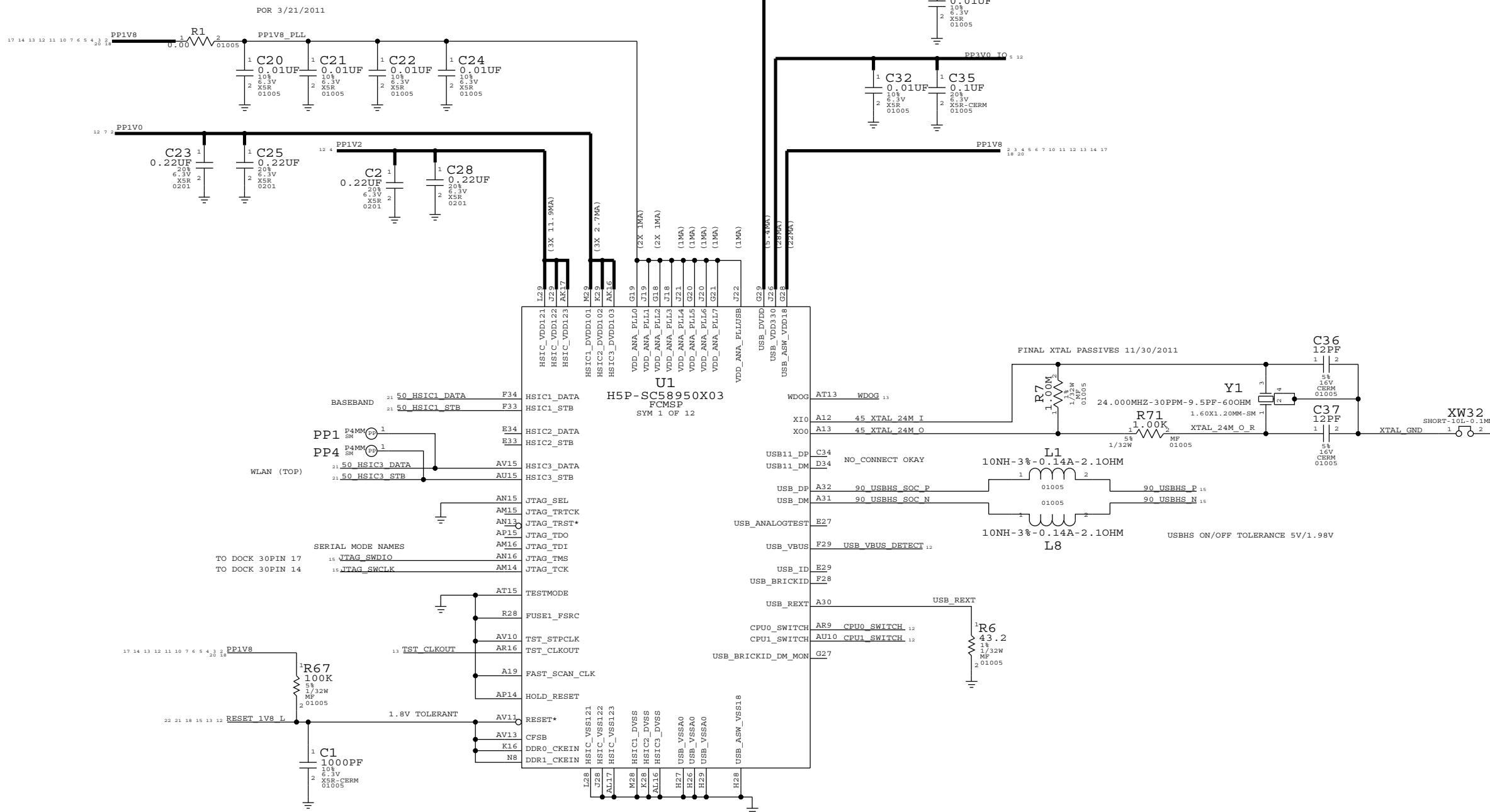
C

B

B

A

A



SYNC MASTER=N/A	SYNC DATE=N/A
PAGE TITLE	
H5P JTAG, USB , PLL	
DRAWING NUMBER	051-9113 D
REVISION	11.0.0
BRANCH	
PAGE	2 OF 24
SHEET	2 OF 51

```

BOARD_REV[3:0] = {EHC1_PORT3, EHC1_PORT_PWR2, EHC1_PORT_PWR1, EHC1_PORT_PWR0}
FLOAT=LOW, PULLUP=HIGH

```

1111	DEV3
1101	PROTO_0, DEV4 & DEV5
1100	PROTO_1
1000	PROGIO_2B TRISTRAR / PROTO_2C LM3534
1010	PROTO3, DEV7
0100	PROGIO_5
1000	EVT3, DOE16/7/3/4/5/6/7/8/9
0111	EVT3, DOE16/7/11/15/20/21 <--- SELECTED

```

BOARD_ID[3:0]={GPIO16,SPI00_MISO,SPI0_MOSI,SPI0_SCLK}
FLOAT=LOW, PULLUP=HIGH
 0000    N41 MLB <-- SELECTED
 0001    N41 DEV
 0010    N42 MLB <-- SELECTED W/ B3_13 BOM OPTION
 0011    N42 DEV

```

```

BOOT_CONFIG[3:0] = {GPIO29_CONFIG3, GPIO28_CONFIG2, GPIO25_CONFIG1, GPIO18_CONFIG0}

FLOAT=LOW, PULLUP=HIGH
 0000  SPI0
 0001  SPI3
 0010  SPI0 W/TEST
 0011  SPI3 W/TEST
 0100  FMI0 2CS
 0101  FMI0 4CS
 0110  FMI0 4CS W/TEST
 0111  RESERVED
 1000  FMI1 2 CS
 1001  FMI1 4 CS
 1010  FMI1 4GS W/TEST
 1100  FMI0/1 2/2 GS <---- SELECTED AT EVT3
 1101  FMI0/1 4/4 CS
 1110  FMI0/1 4/4 CS W/TEST
 1111  RESERVED

```

COMMON PULL UP FOR BOARD\_REV, BOARD\_ID AND BOOT\_CONFIG PIN

R12 MUST WIN OVER 6X INTERNAL PULL-DOWNS THAT ARE ~100K

3 ID\_N42 R76 1 2 PP1V8 2 3 4 5 6 7 10 11 12 13 14 17  
01005 1.00K 28 26  
**BOMOPTION=B3\_13**

15 13 12 9 4 **PPIVB SDRAM**

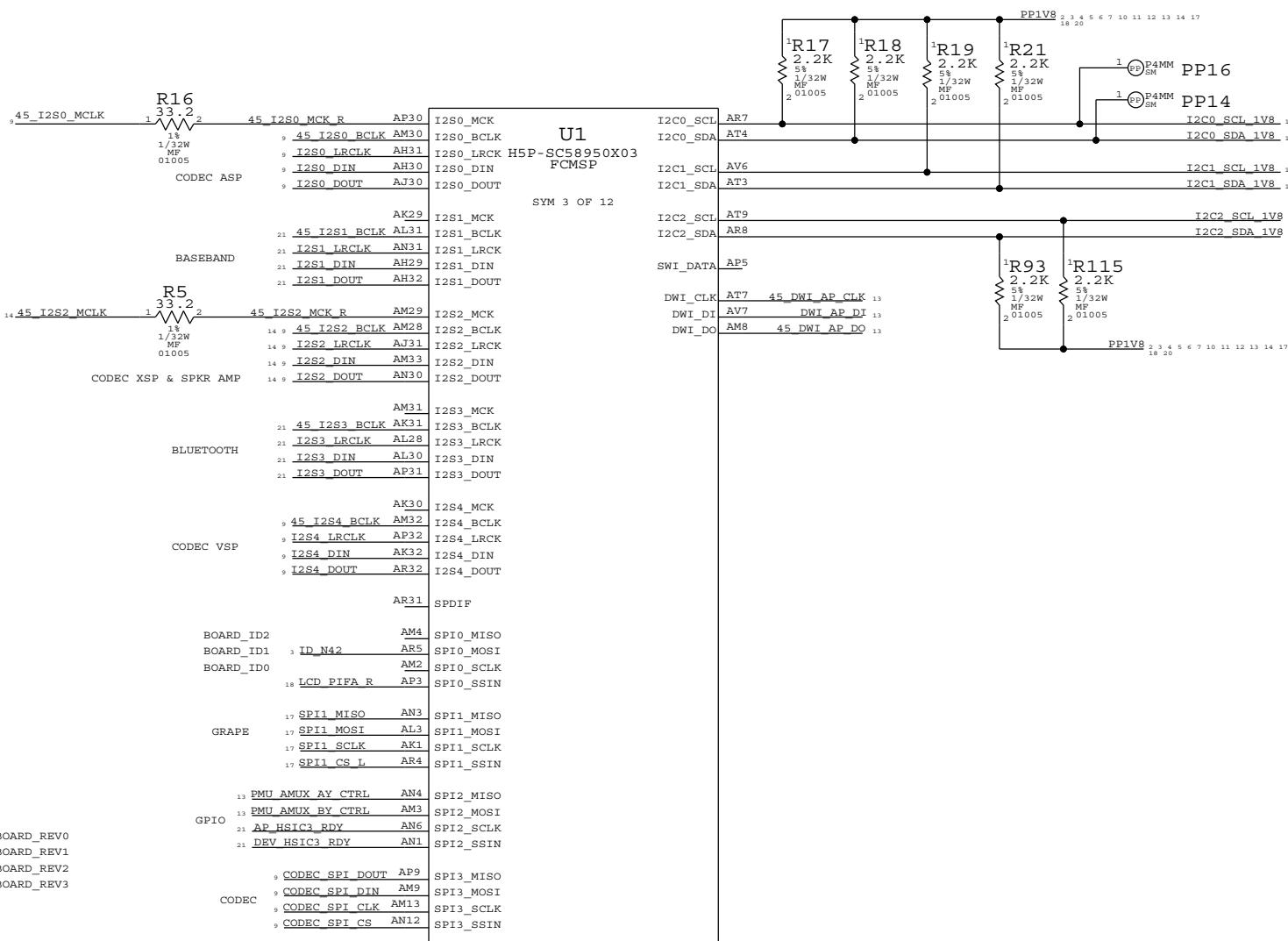
**R52<sup>1</sup>**  
220K  
5%  
1/8W  
M2  
01005 2

13 3 **MENU\_KEY\_BUFF\_L** W3 GPIO00  
13 3 **HOLD\_KEY\_BUFF\_L** N2 GPIO01  
13 8 **VOL\_UP\_L** M4 GPIO02  
13 8 **VOL\_DWN\_L** V3 GPIO03  
13 8 **RINGER\_A** T4 GPIO04  
(OPEN DRAIN@PMU) NEW --->

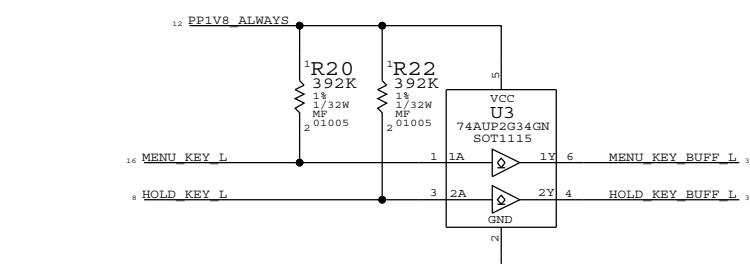
14 **SPKAMP\_INT\_L** W2 GPIO05  
13 **PMU\_IRO\_L** P3 GPIO06  
21 **BT\_WAKE** M3 GPIO07  
19A **KEEP (STAYING) ALIVE** ---> U1  
14 **BEEF\_GEES** P4 GPIO09  
19A **KEEP (STAYING) ALIVE** ---> UART0\_RXD  
14 **BOARD\_INFO** AE4  
13 **BOARD\_REV0**  
13 **BOARD\_REV1**  
13 **BOARD\_REV2**  
13 **BOARD\_REV3**  
  
U1  
FCMSP  
H5P-SC58950X03  
SYM 2 OF 12  
TMR32\_PWM0 AT6 GYRO\_INT2 14  
TMR32\_PWM1 AP8 VIB\_PWM 8  
TMR32\_PWM2 AP1 CLK32K\_GRAPE\_RESET\_SOC\_L 17  
UART0\_RXD AR15 VIB\_LDO\_EN 8

RESERVED	BB_JTAG_TCK	21	<u>BB_HSIC1_REMOTE_WAKE</u>	W1	GPIO10/SDIO_D3	UART0_TXD	AU12	FLASH_ENABLE_19
	BB_JTAG_TDI	21	<u>BB_JTAG_TCK</u>	M2	GPIO11/SDIO_D2	UART1_CTSN	AA3	<u>UART1_CTS_L_21</u>
	BB_JTAG_TMS	21	<u>BB_JTAG_TDI</u>	R3	GPIO12/SDIO_D1	UART1_RTSN	AB2	<u>UART1_RTS_L_21</u>
	BB_JTAG_TDO	21	<u>BB_JTAG_TMS</u>	N3	GPIO13/SDIO_D0	UART1_RXD	AB3	<u>UART1_RXD_15_21</u>
				M1	GPIO14/SDIO_CMD	UART1_TXD	AF5	<u>UART1_TXD_15_21</u>
	BOARD_ID3			AC3	GPIO15/SDIO_CLK	UART1_TXD		
		T3		GPIO16				
	BOOT_CONFIG0	21	<u>AP_HSIC1_RDY</u>	V1	GPIO17	UART2_CTSN	AG3	<u>TRISTAR_INT_13_15</u>
		AC2		GPIO18	UART2_RTSN	AA1	<u>ACCEL_INT_14</u>	
	13	<u>KEEPACT</u>		V4	GPIO19	UART2_RXD	AE2	<u>UART2_RXD_15</u>
RVED FOR NON-TRISTAR DESIGN -->	WLAN_HSIC3_RESUME	21	<u>RSLN_Hsic3_Resume</u>	R31	GPIO20	UART2_RXD	AF3	<u>UART2_RXD_15</u>
	17	<u>GRAPE_INT_L</u>		P34	GPIO21			ACCESSORY UART: TOLERANCE 1.98V
	19	<u>LCD_RESET_L</u>		P33	GPIO22	UART3_CTSN	AH3	<u>UART3_CTS_L_21</u>
	18	<u>LCD_HIPA_BSYNC</u>		P32	GPIO23	UART3_RTSN	AB1	<u>UART3_RTS_L_21</u>
	21	<u>BB_RST_L</u>		N32	GPIO24	UART3_RXD	AF4	<u>UART3_RXD_21</u>
	BOOT_CONFIG1			L33	GPIO25	UART3_RXD	AG4	<u>UART3_RXD_21</u>
		22	<u>FORCE_DFU</u>	P30	GPIO26	UART3_RXD		
	DFU_STATUS			P31	GPIO27	UART4_CTSN/SPI4_SSIN	AJ4	<u>BB_JTAG_TRST_L_21</u>
	BOOT_CONFIG2	3	<u>BOARD_INFO</u>	L34	GPIO28	UART4_RTSN/SPI4_SCLK	AE1	<u>CAMO_VDDCORE_EN_20</u>
	BOOT_CONFIG3	3	<u>BOARD_INFO</u>	M32	GPIO29	UART4_RXD/SPI4_MISO	AJ2	<u>UART4_RXD_21</u>
	9	<u>CODEC_INT_L</u>		K32	GPIO30	UART4_RXD/SPI4_MOSI	AH4	<u>UART4_RXD_21</u>
	DEV_HSIC1_RDY	21	<u>PBL_RUN_BB_HSIC1_RDY</u>	L32	GPIO31			WIFI UART
RVED FOR NON-TRISTAR DESIGN -->	21	<u>RADIO_ON_L</u>		C22	GPIO32	UART5_RXD	AK4	<u>BATTERY_SWI_13_21</u>
	14	<u>GYRO_INT1</u>		D22	GPIO33	UART5_RXD	AJ3	<u>BB_RESET_DET_L_21</u>
	14	<u>COMPASS_INT_2</u>		C21	GPIO34			GAS GAUGE
	21	<u>AP_WAKE_MODEM</u>		D21	GPIO35	UART6_CTSN	AH2	<u>BB_PP_SYNC_21</u>
	14	<u>ACCEL_INT2_L</u>		C20	GPIO36	UART6_RTSN	AL1	<u>SPKAMP_RESET_L_14</u>
	11	<u>ALS_INT_L</u>		D20	GPIO37 <50MHZ	UART6_RXD	AK3	<u>UART6_RXD_15</u>
	17	<u>GRAPE_RESET_L</u>		C19	GPIO38	UART6_RXD	AD1	<u>UART6_RXD_15</u>
	16	<u>HS3_CONTROL</u>		D19	GPIO39 <50MHZ	UART6_RXD		DEBUG UART: TOLERANCE 1.98V
		AT11		GPIO_3V0				
RVED FOR NON-TRISTAR DESIGN -->						GPIO_SVSEL18_FM1	AU13	
						GPIO_SVSEL25_FM1	AR14	
								PMT_00=1.8V   01=3.0V   10=3.3V

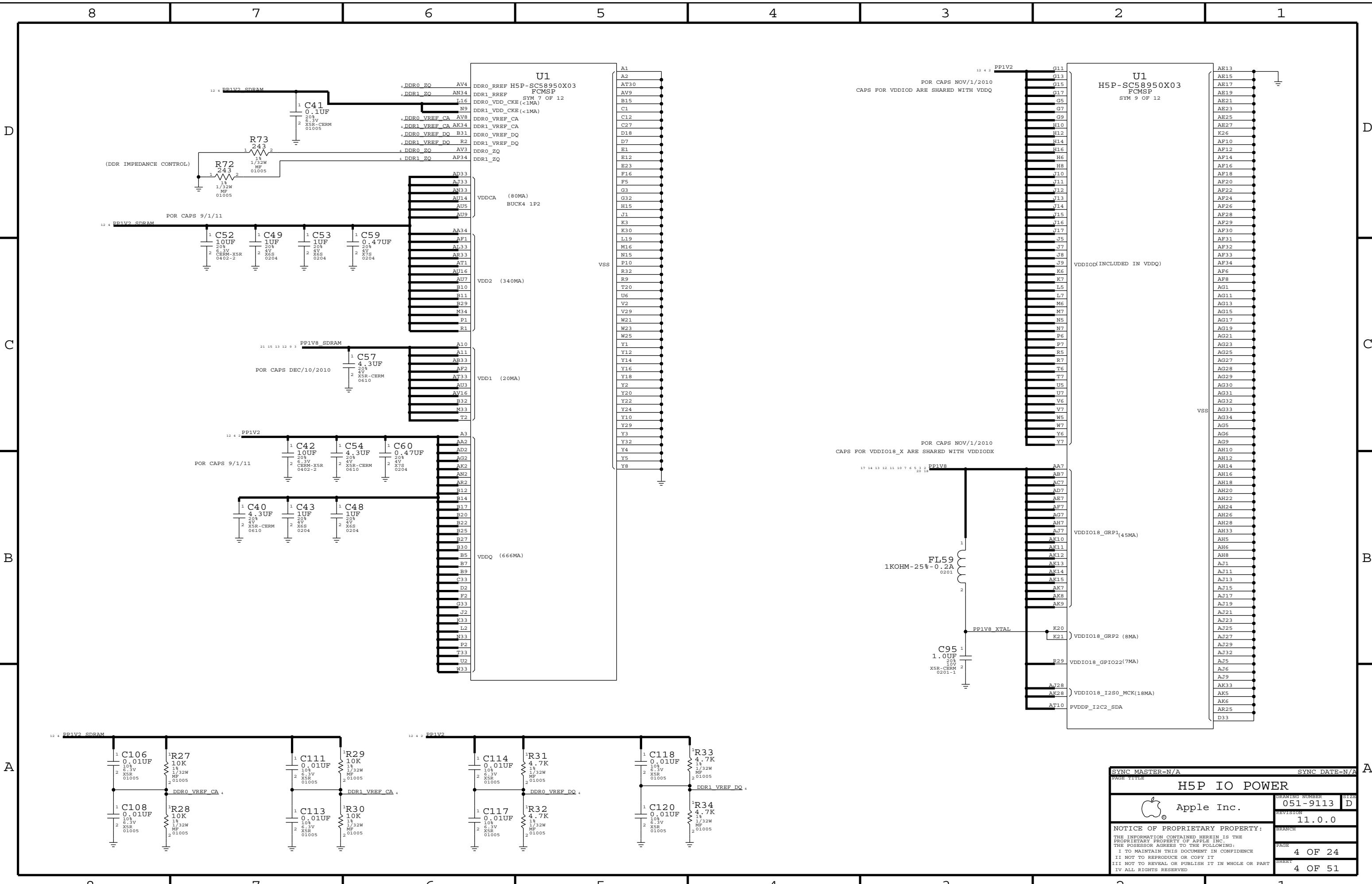
14	<u>ACCEL_INT2_L</u>	C20	GPIO36	UART6_RTSN	AL1	SPKAMP_RESET_L	14
		D20	GPIO37 <50MHZ	UART6_RXD	AK3	UART6_RXD	15
11	<u>ALS_INT_L</u>	C19	GPIO38	UART6_TXD	AD1	UART6_TXD	15
17	<u>GRAPE_RESET_L</u>	D19	GPIO39 <50MHZ				
16	<u>HS3_CONTROL</u>	AT11	GPIO_3V0	GPIO_SVSEL18_FMI	AU13		
16	<u>HS4_CONTROL</u>	AP12	GPIO_3V1	GPIO_SVSEL25_FMI	AR14	FMI, 00=1.8V   01=3.0V   10=3.3V	
				GPIO_VSEL25_I2C2	AR13		
				GPIO_VSEL25_SPI3	AT12	I2C2, 0=1.8V   1=3.0V	
						SPI3, 0=1.8V   1=3.0V	



MENU & POWER / HOLD KEY



SYNC MASTER-N/A	SYNC DATE-N
PAGE TITLE	H5P GPIO & CONTROL
 Apple Inc.	DRAWING NUMBER 051-9113  REVISION 11.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF APPLE COMPUTER, INC., AND THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED.	
PAGE	3 OF 24
SHEET	3 OF 51



D

D

C

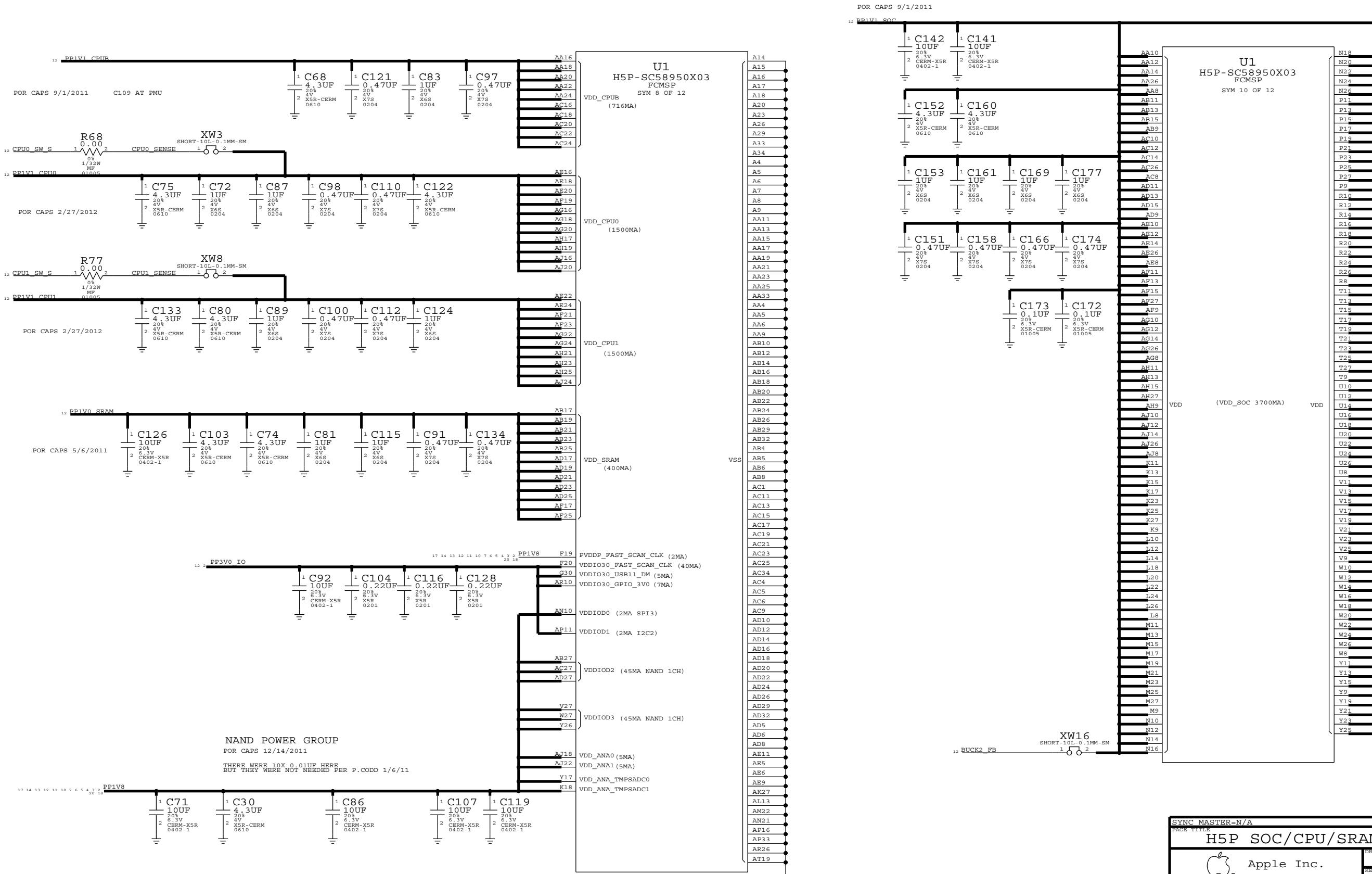
C

B

B

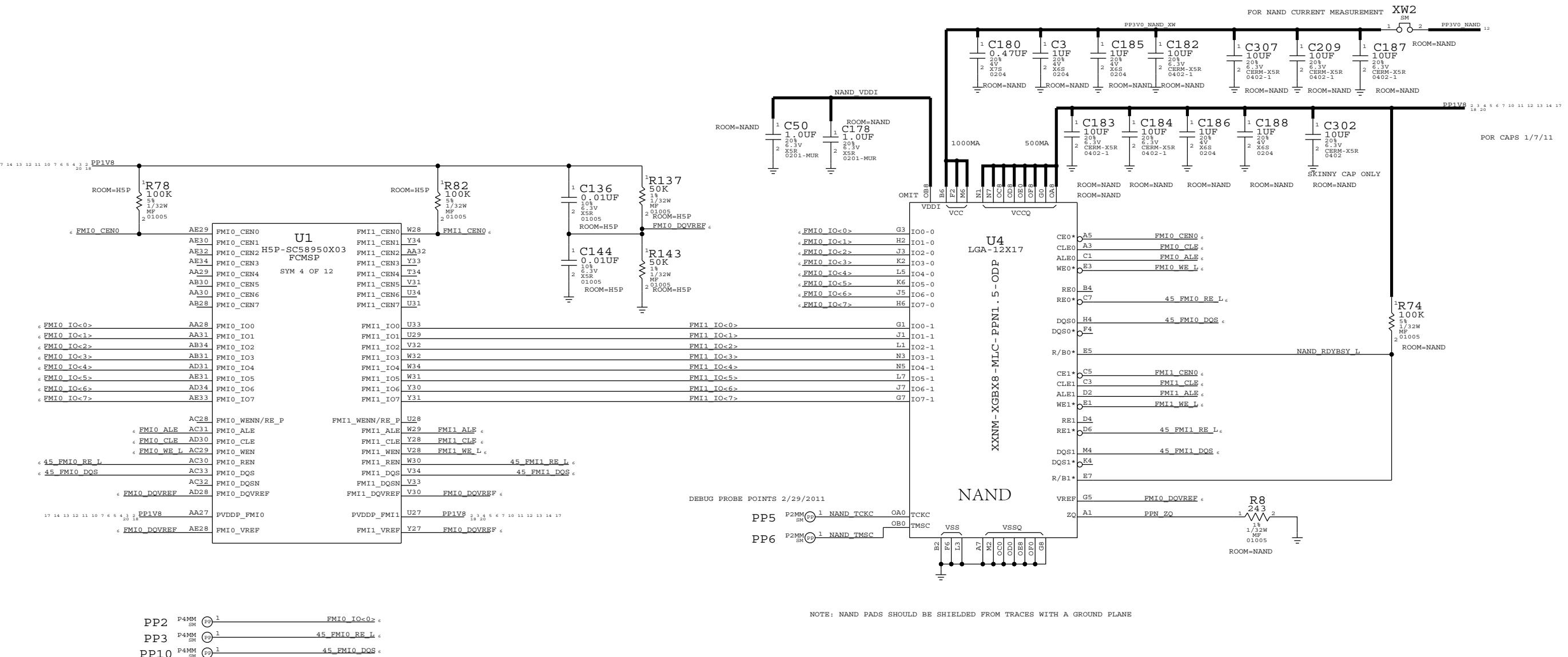
A

A



# NAND

SUPPORT FOR PPN1.5 AND PPN1.0 W/ 1.8V IO ONLY



SYNC MASTER=N/A	SYNC DATE=N/A
PAGE TITLE: H5P W/ NAND	
 Apple Inc.	
DRAWING NUMBER: 051-9113 D	SIZE: D
REVISION: 11.0.0	BRANCH:
PAGE: 6 OF 24	SHEET: 6 OF 51

NOTICE OF PROPRIETARY PROPERTY:  
THE INFORMATION CONTAINED HEREIN IS THE  
PROPRIETARY PROPERTY OF APPLE INC.  
THE POSSESSOR AGREES TO THE FOLLOWING:  
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE  
II NOT TO REPRODUCE OR COPY IT  
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART  
IV ALL RIGHTS RESERVED

D

D

C

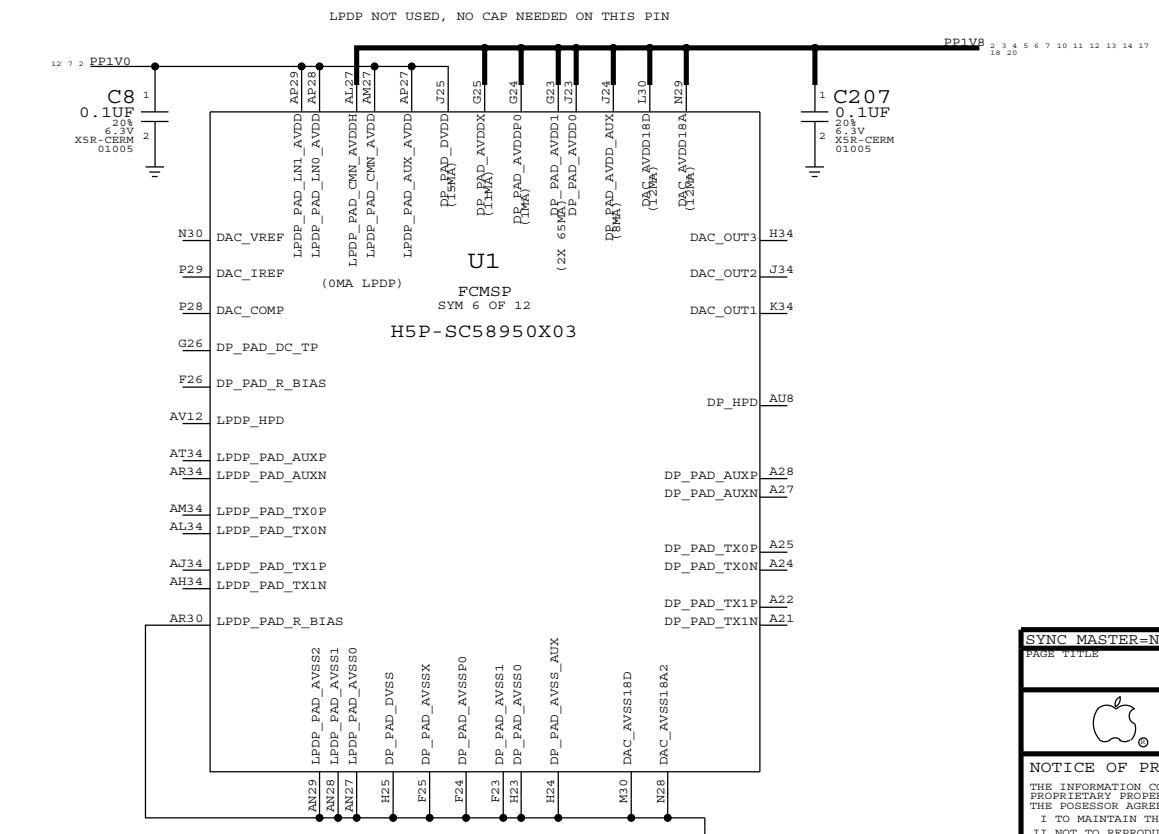
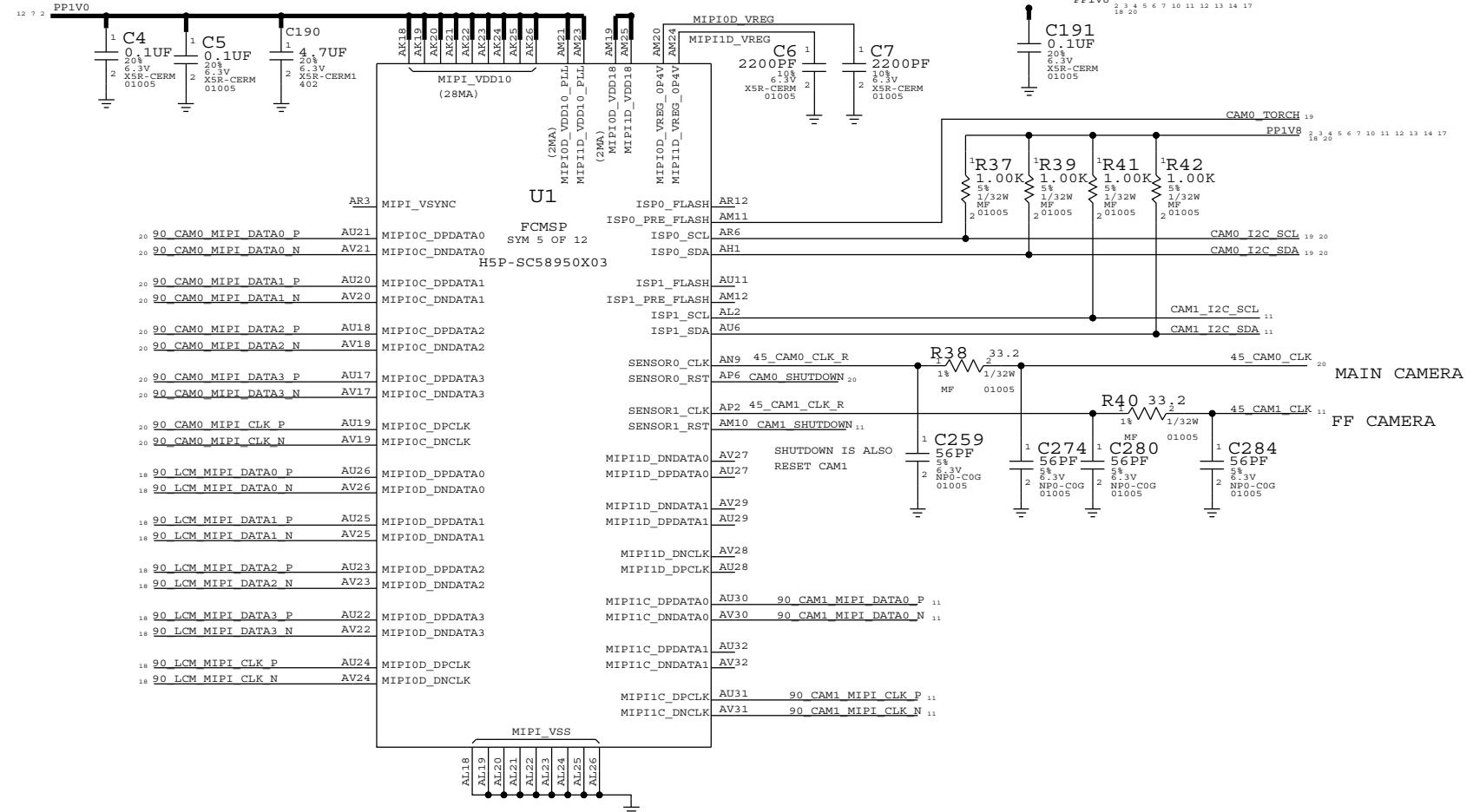
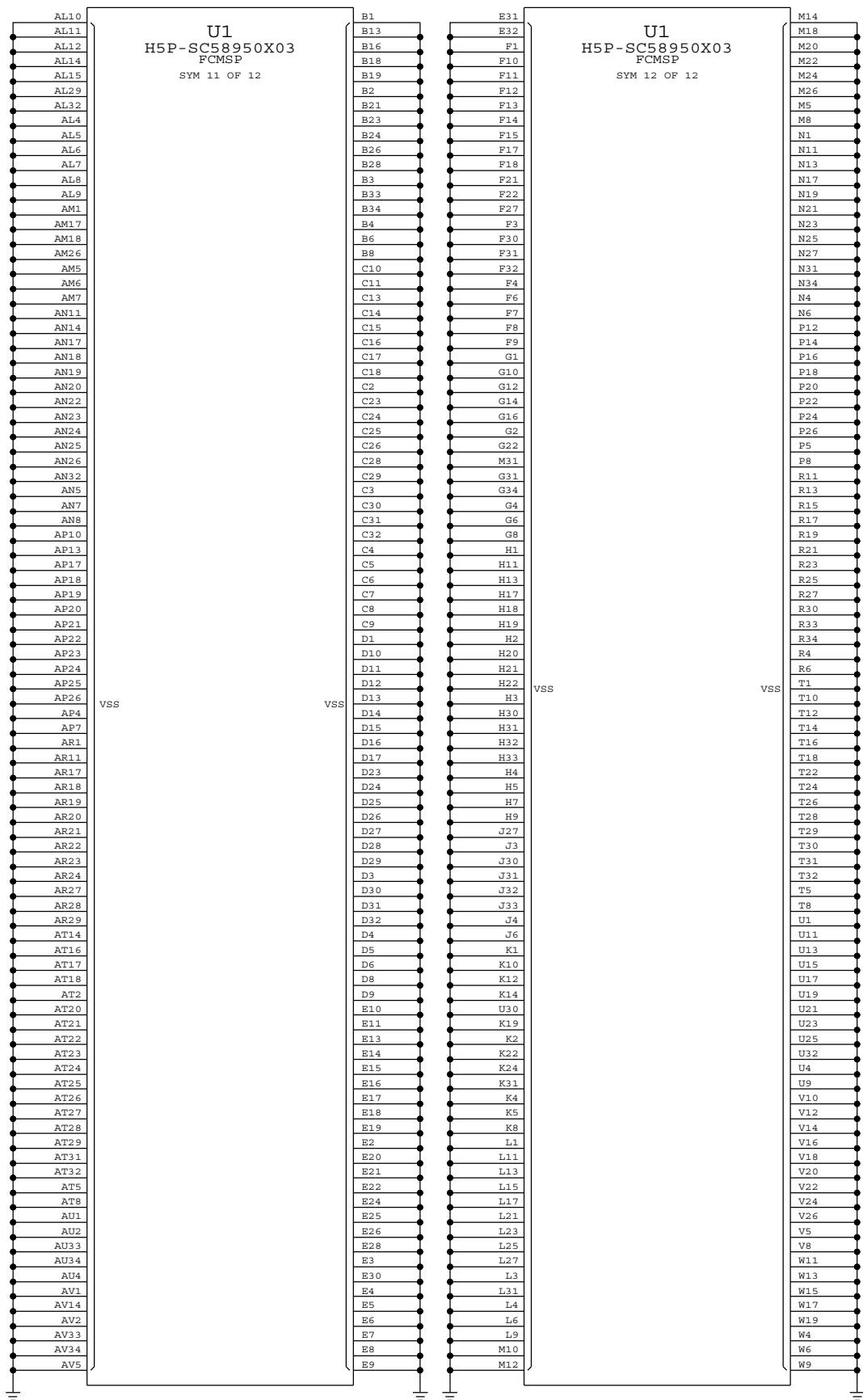
C

B

B

A

A



**H5P VIDEO**

Apple Inc.

SYNC MASTER=N/A	SYNC DATE=N/A
PAGE TITLE	
DRAWING NUMBER	051-9113 D
REVISION	11.0.0
BRANCH	
PAGE	7 OF 24
SHEET	7 OF 51

**NOTICE OF PROPRIETARY PROPERTY:**

The information contained herein is the proprietary property of Apple Inc.  
The possessor agrees to the following:  
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE  
II NOT TO REPRODUCE OR COPY IT  
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART  
IV ALL RIGHTS RESERVED

D

D

C

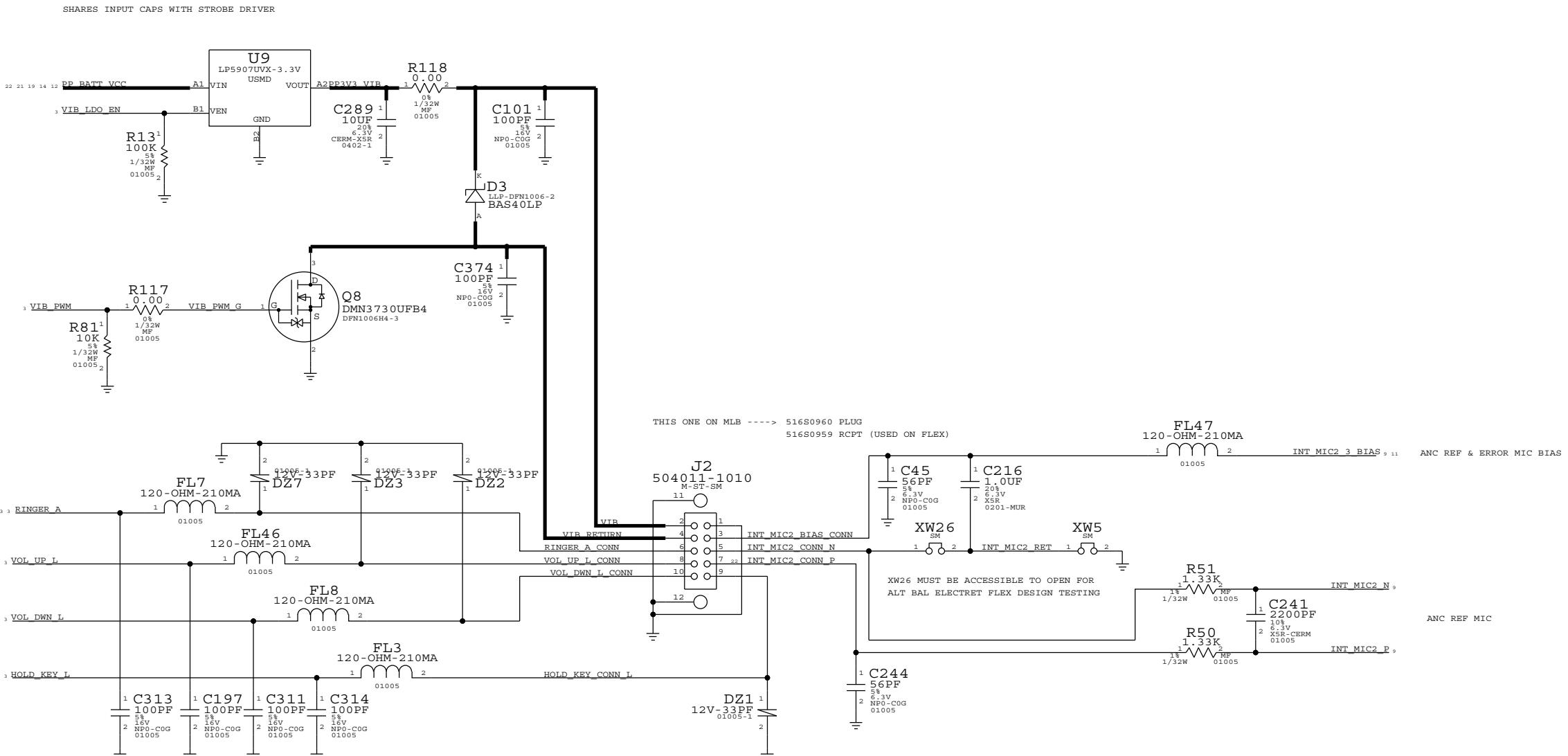
C

B

B

A

A



SYNC MASTER=N/A	SYNC DATE=N/A
PAGE TITLE	
BUTTON CONNECTOR	
DRAWING NUMBER	051-9113 D
REVISION	11.0.0
BRANCH	
PAGE	8 OF 24
SHEET	8 OF 51

# CS42L65 AUDIO CODEC

D

D

C

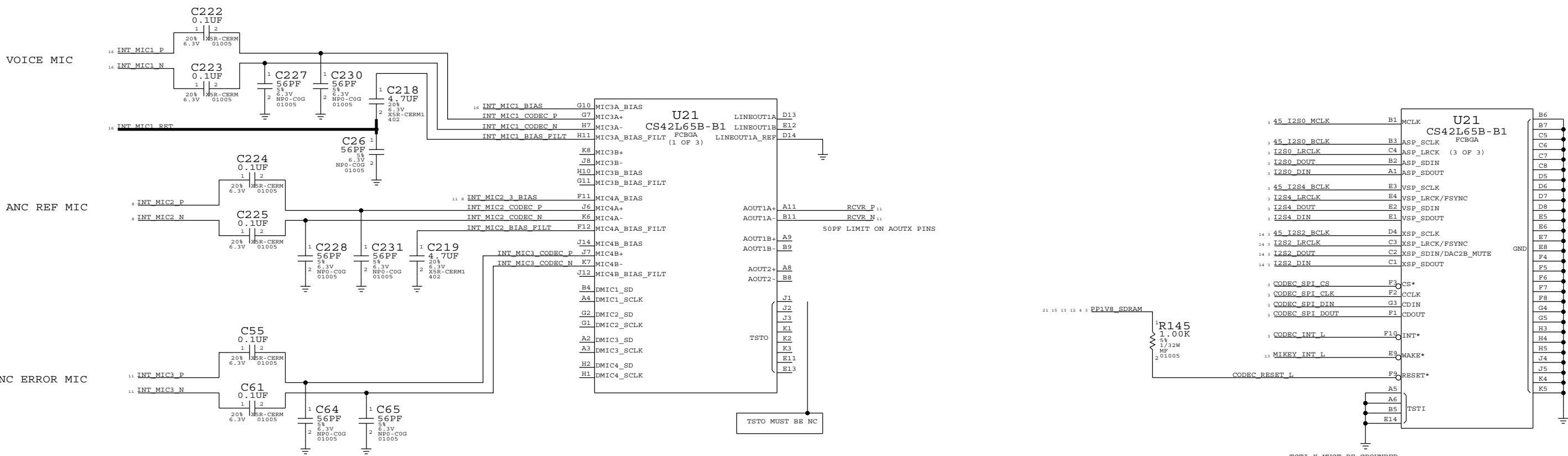
C

B

B

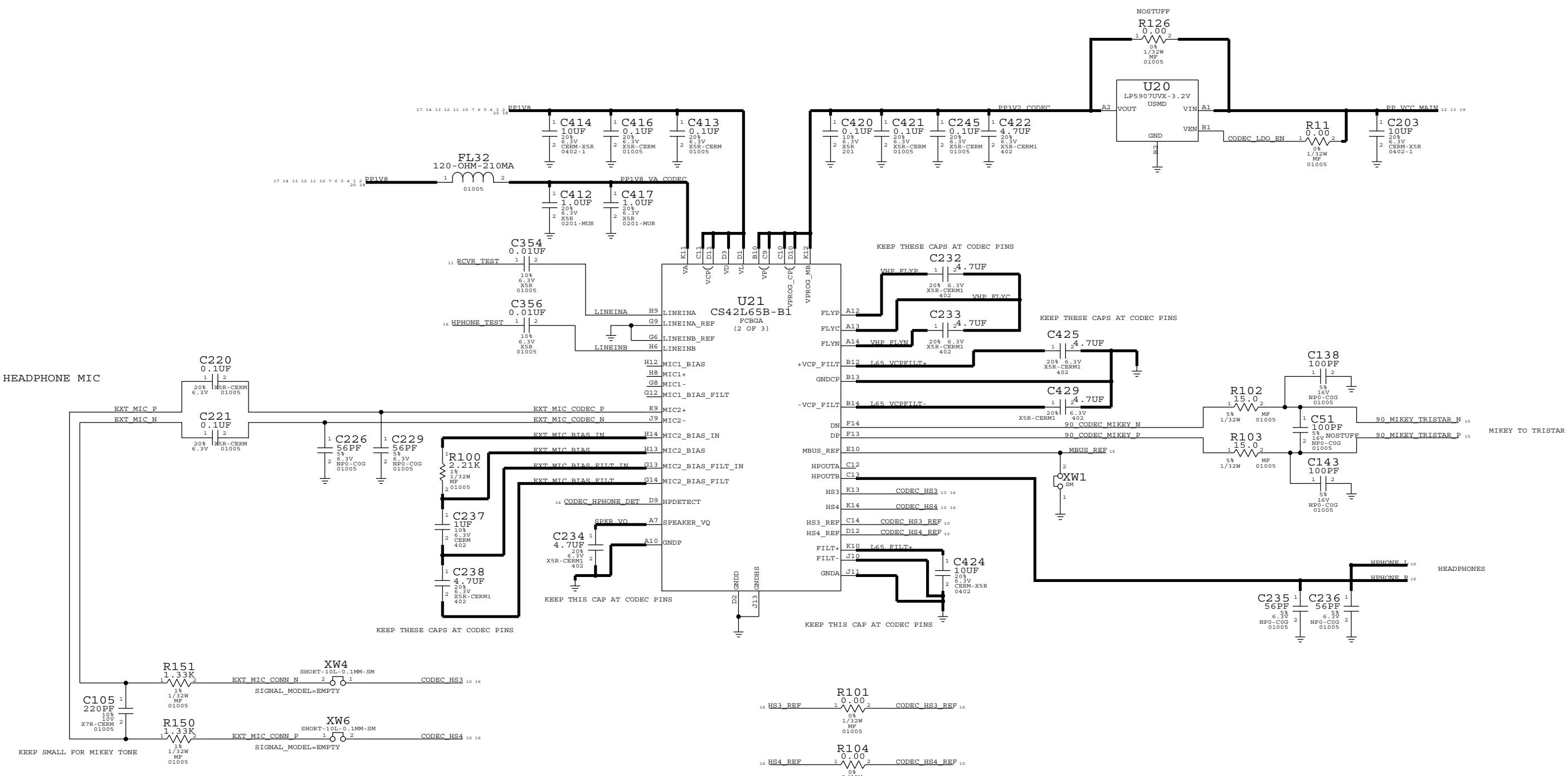
A

A

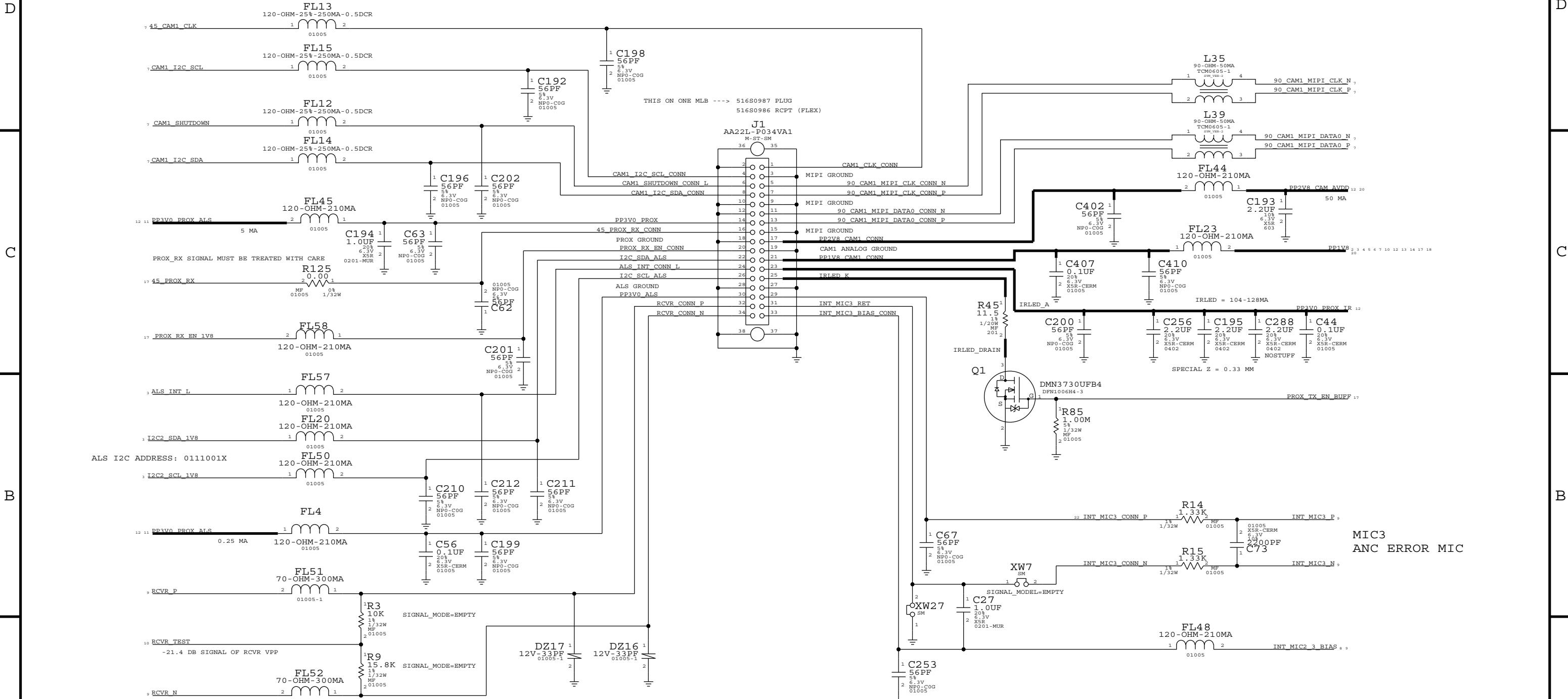


SYNC MASTER=N/A	SYNC DATE=N/A
<b>CS42L65 AUDIO CODEC (1/2)</b>	
Apple Inc.	DRAWING NUMBER 051-9113 D
11.0.0	REVISION 11.0.0
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED	BRANCH
	PAGE 9 OF 24
	SHEET 9 OF 51

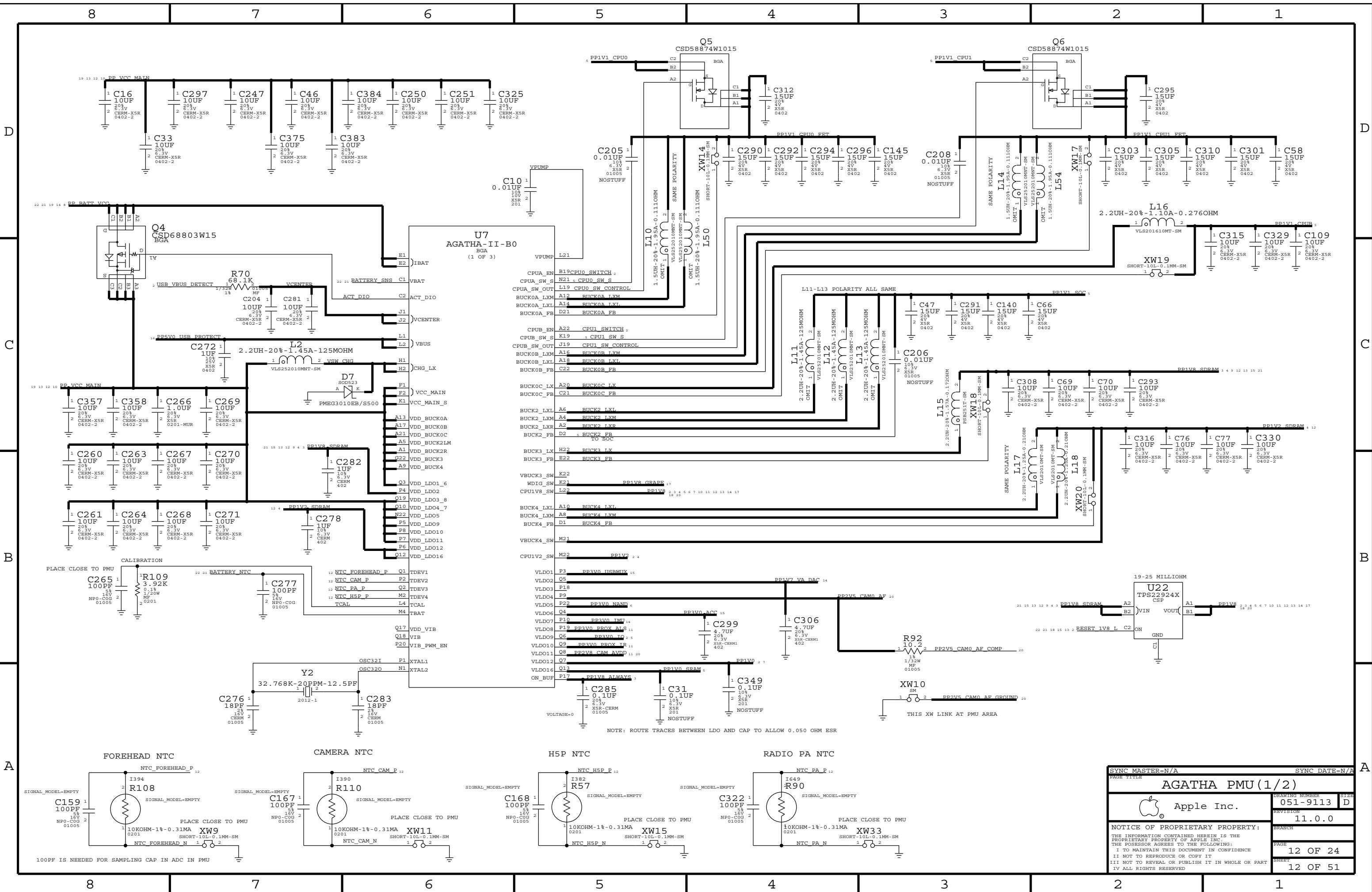
## CS42L65 AUDIO CODEC



SYNC	MASTER=N/A	SYNC	DATE=N/A
PAGE	TITLE		
<b>CS42L65 AUDIO CODEC (2/2)</b>			
 Apple Inc.		DRAWING NUMBER 051-9113	SIZ D
		REVISION 11.0.0	
NOTICE OF PROPRIETARY PROPERTY:			
THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF APPLE INC. AND THE POSSESSOR AGREES TO THE FOLLOWING:			
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE			
II NOT TO REPRODUCE OR COPY IT			
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART			
IV ALL RIGHTS RESERVED.			
BRANCH	PAGE 10 OF 24		
SHEET	10 OF 51		



SYNC MASTER=N/A		SYNC DATE=N/A	
PAGE TITLE CG FLEX CONNECTOR			
DRAWING NUMBER	051-9113	SIZE	D
REVISION	11.0.0	BRANCH	
PAGE	11 OF 24	SHEET	11 OF 51
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED			



D

D

C

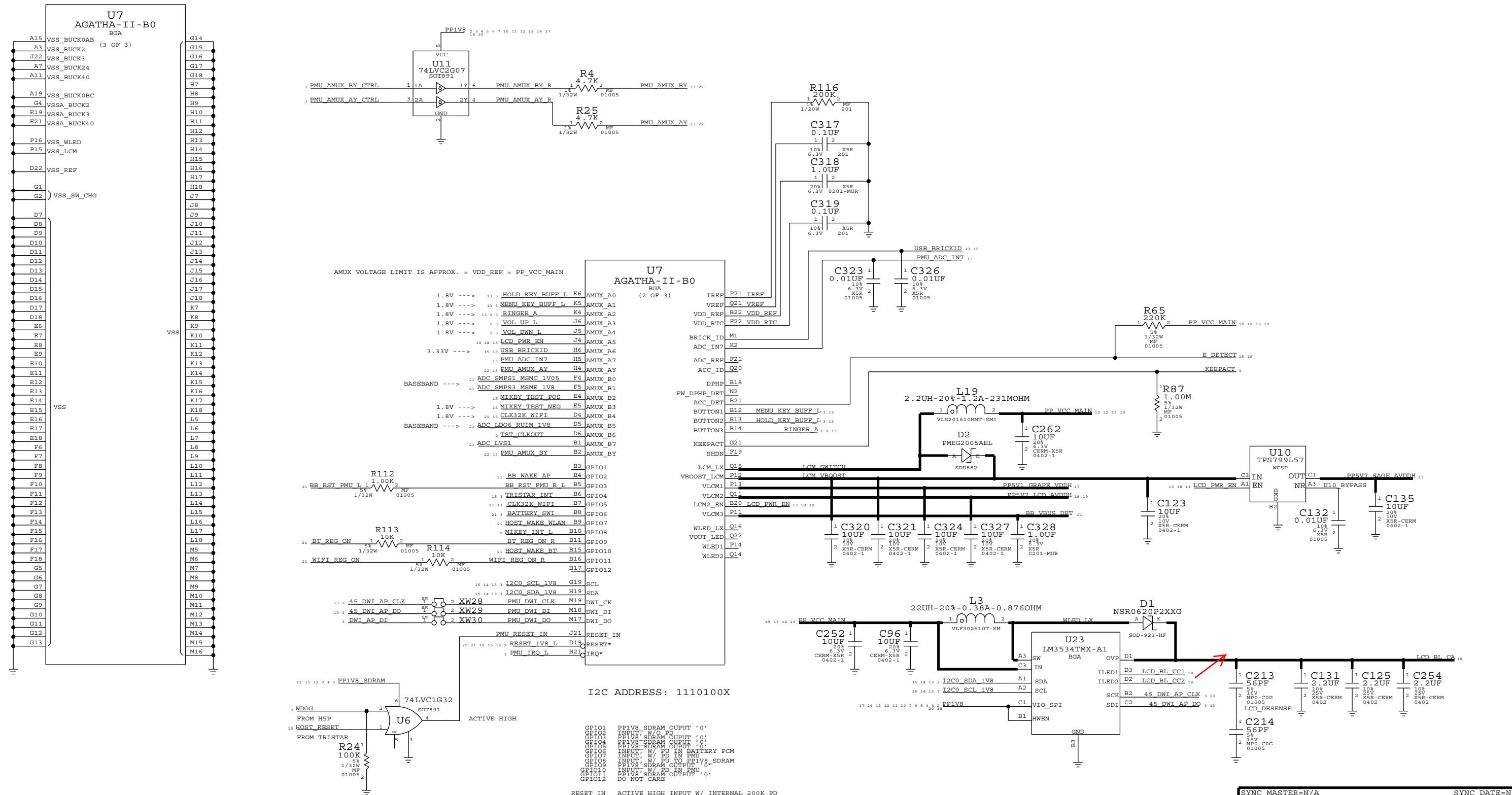
C

B

B

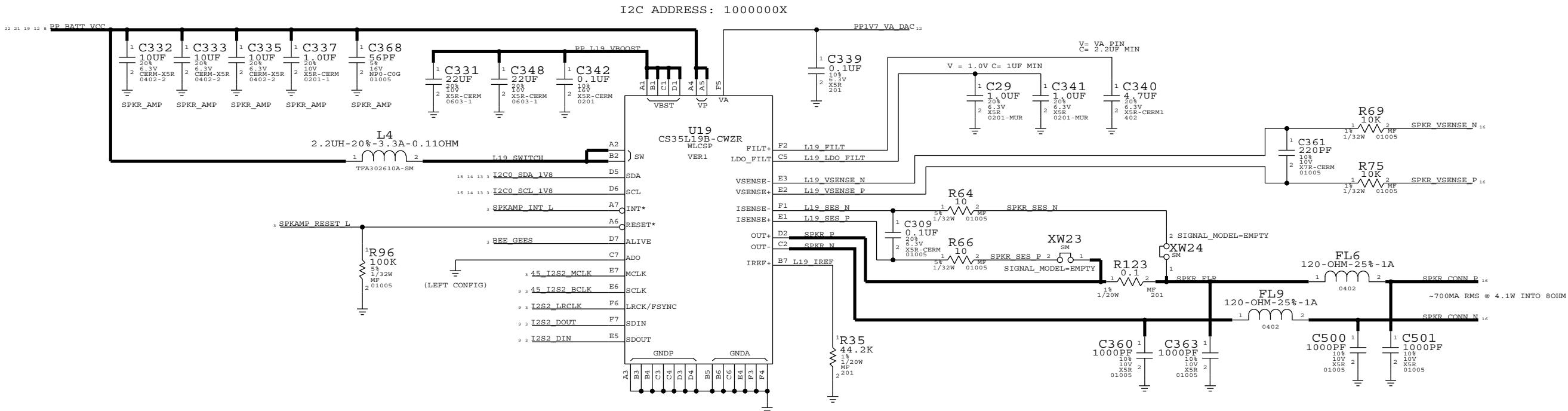
A

A



SYNC MASTER=N/A		SYNC DATE=N/A	
PAGE TITLE			
AGATHA PMU (2/2)		DRAWING NUMBER	051-9113 D
		REVISION	11.0.0
NOTICE OF PROPRIETARY PROPERTY:		BRANCH	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC.		PAGE	13 OF 24
THE POSSESSOR AGREES TO THE FOLLOWING:		SHEET	13 OF 51
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE			
II NOT TO REPRODUCE OR COPY IT			
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART			
IV ALL RIGHTS RESERVED			

# SPEAKER AMP

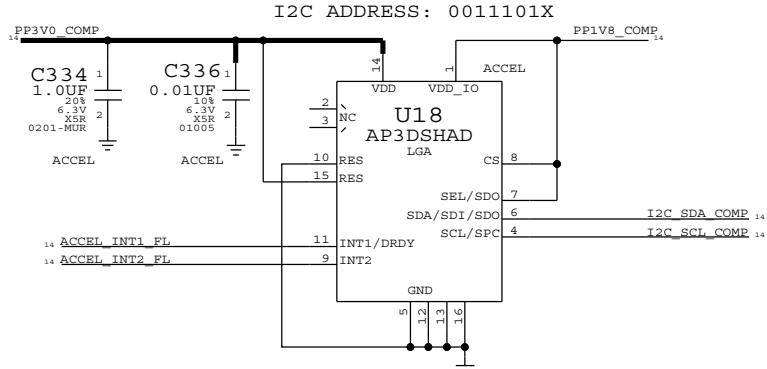


THESE PARTS OUTSIDE OF SHIELD

# GYRO 20KHZ

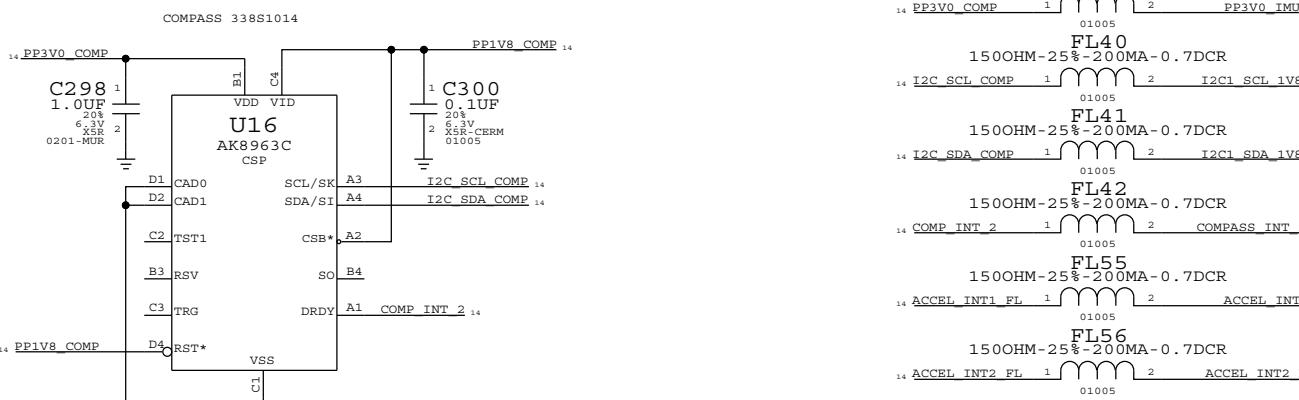
I<sub>2</sub>C ADDRESS: 1101010X

## ACCELEROMETER



## COMPASS2

I<sub>2</sub>C ADDR: 0001100X

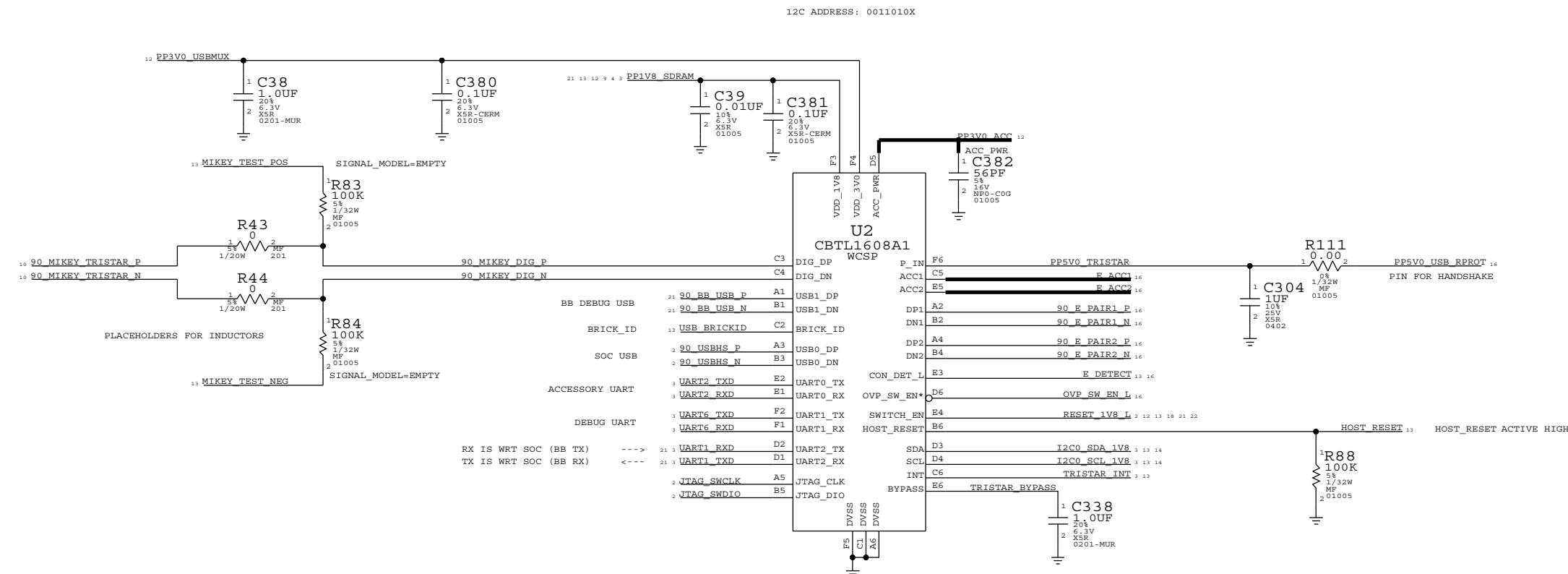


SYNC MASTER=N/A	SYNC DATE=N/A
ACCEL, GYRO, COMPASS, SPK AMP	
Apple Inc.	051-9113 D
NOTICE OF PROPRIETARY PROPERTY:	REVISION 11.0.0
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC.	BRANCH
THE POSSESSOR AGREES TO THE FOLLOWING:	PAGE 14 OF 24
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE	SHEET 14 OF 51
II NOT TO REPRODUCE OR COPY IT	
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART	
IV ALL RIGHTS RESERVED	

D

D

# TRISTAR

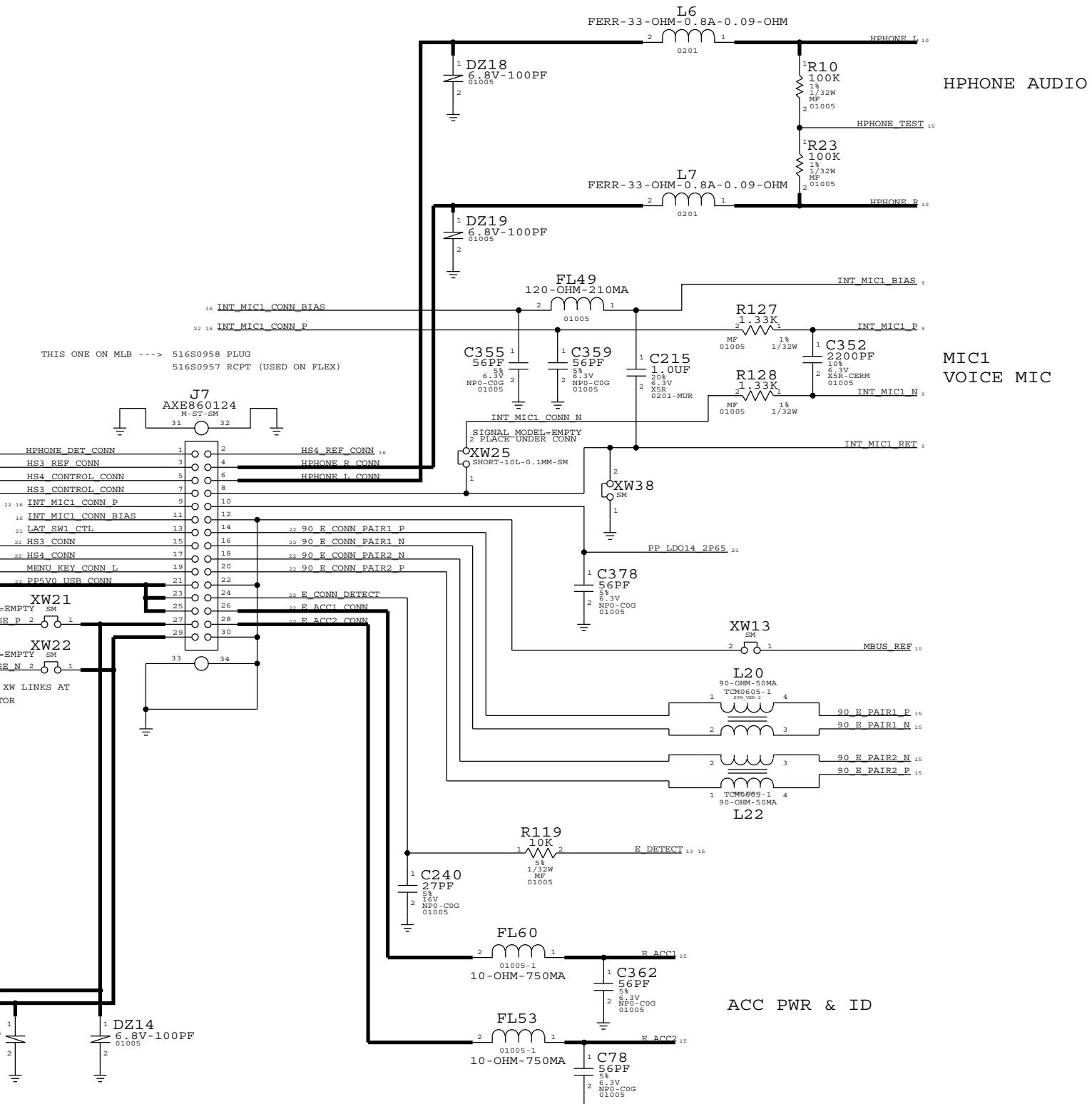
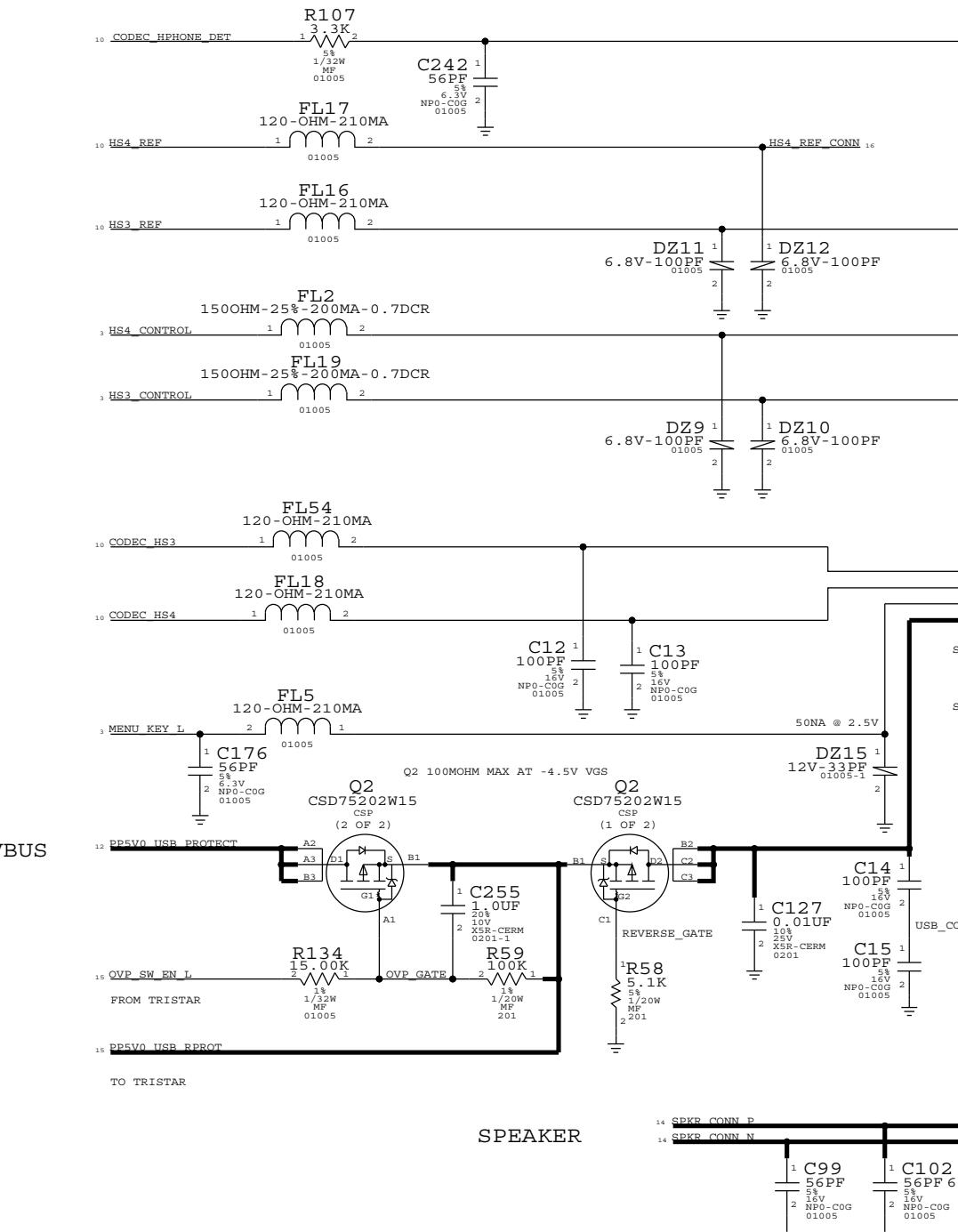


A

A

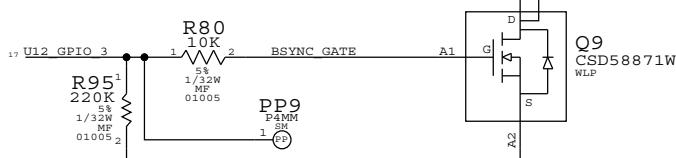
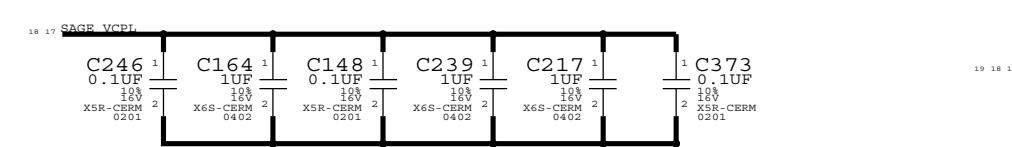
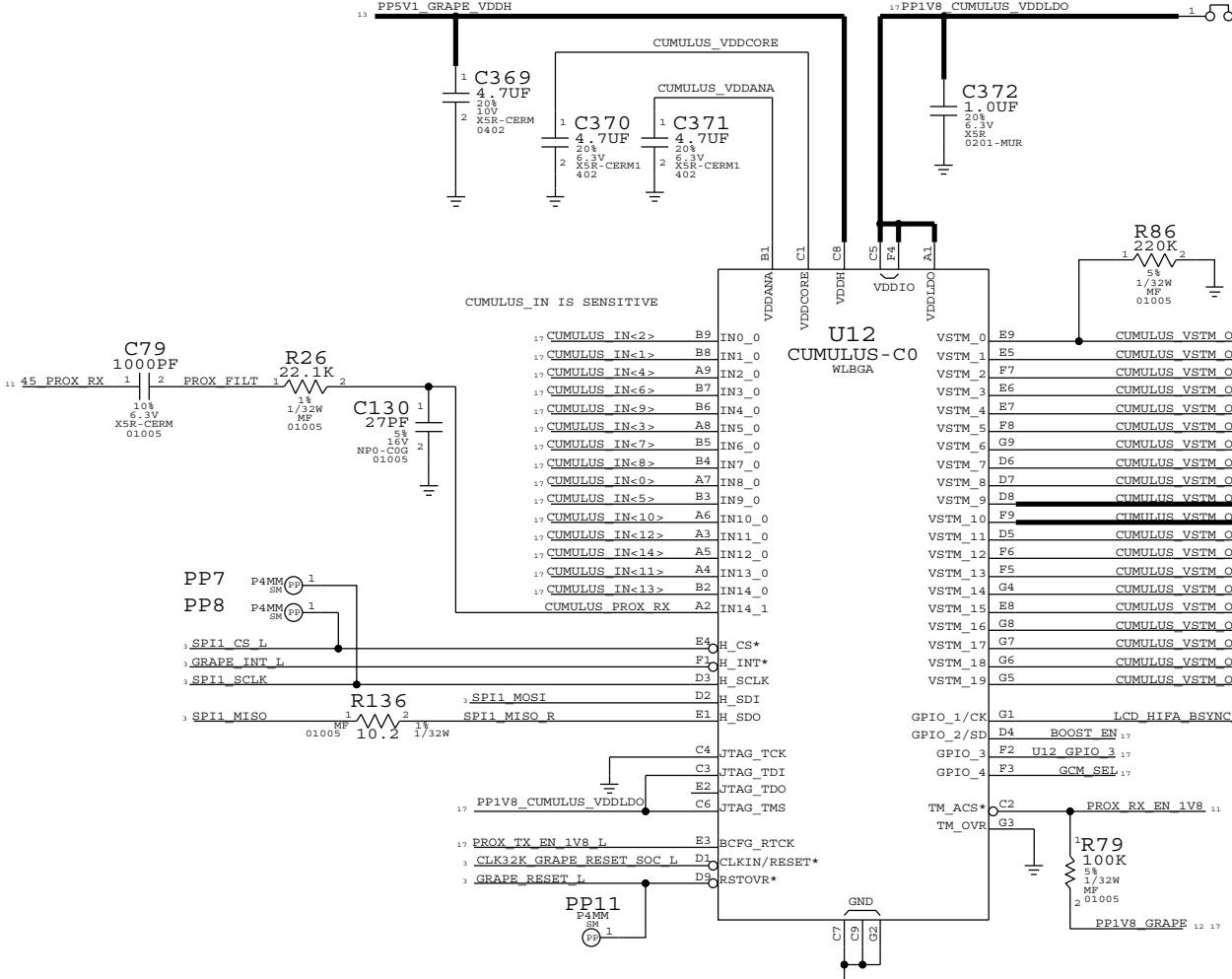
SYNC MASTER=N/A		SYNC DATE=N/A			
PAGE TITLE					
TRISTAR					
DRAWING NUMBER	051-9113	SIZE	D		
REVISION	11.0.0	BRANCH			
NOTICE OF PROPRIETARY PROPERTY:		PAGE	15 OF 24		
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC.		SHEET	15 OF 51		
THE POSSESSOR AGREES TO THE FOLLOWING:					
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE					
II NOT TO REPRODUCE OR COPY IT					
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART					
IV ALL RIGHTS RESERVED					

D



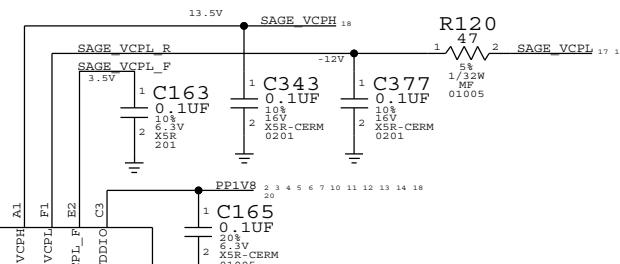
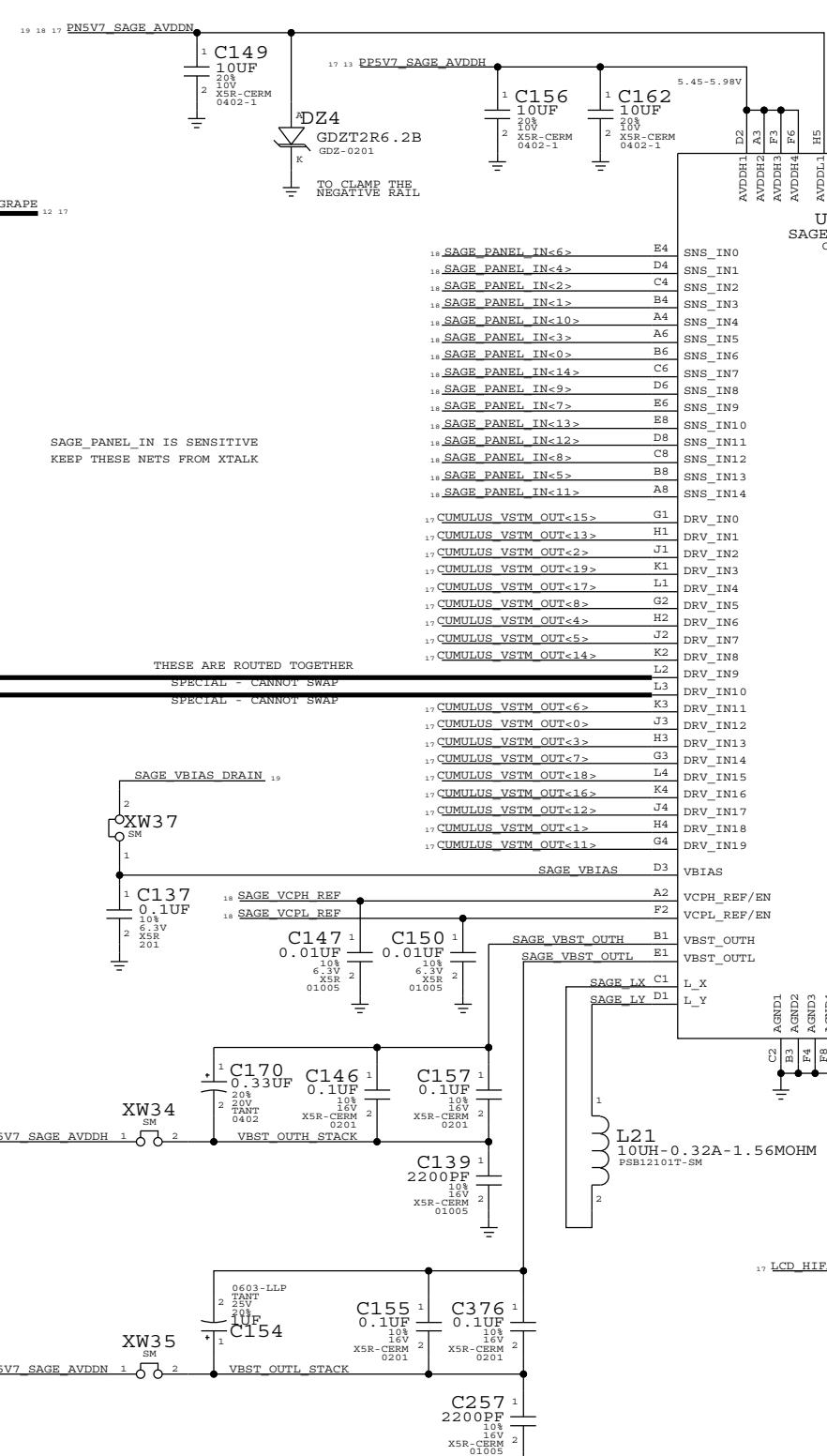
# CUMULUS CO

(TURN ON LATER THAN PP1V8\_GRAPE)  
(TURN OFF SAME TIME AS PP1V8\_GRAPE)



SAGE\_PANEL\_IN IS SENSITIVE  
KEEP THESE NETS FROM XTALK

SAGE\_PANEL\_IN IS SENSITIVE  
KEEP THESE NETS FROM XTALK



SYNC MASTER=N/A	SYNC DATE=N/
PAGE TITLE	GRAPE
 Apple Inc.	
NOTICE OF PROPRIETARY PROPERTY:	
THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF APPLE INC. AND THE POSSESSOR AGREES TO THE FOLLOWING:	
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED	
DRAWING NUMBER	051-9113 D
REVISION	11.0.0
BRANCH	
PAGE	17 OF 24
SHEET	17 OF 51

D

D

C

C

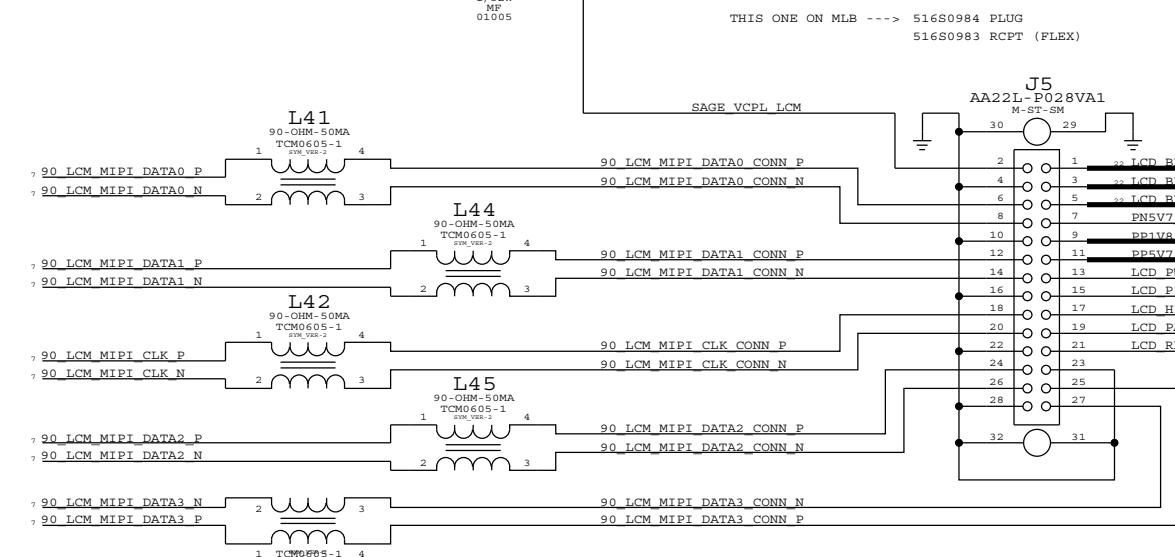
B

B

A

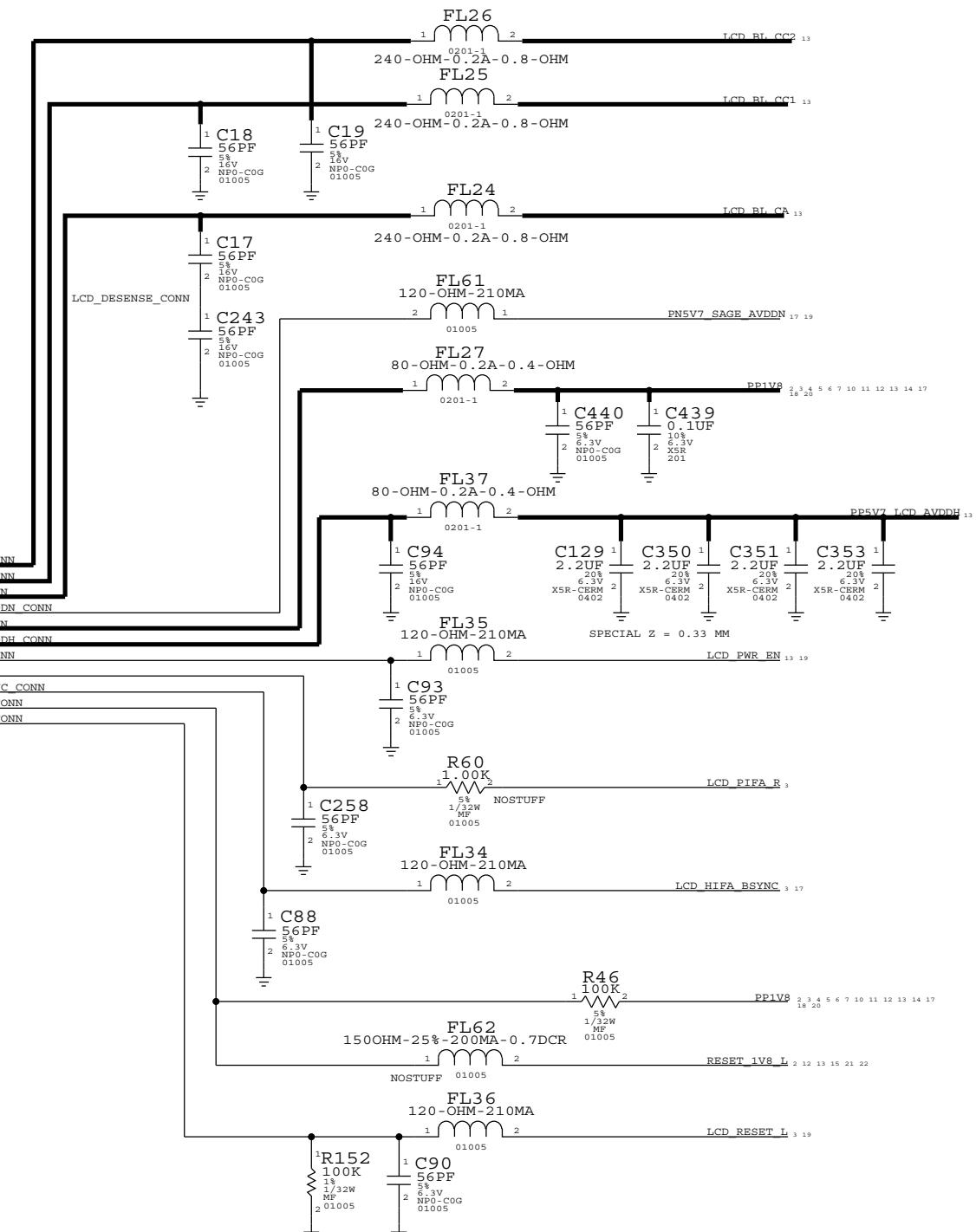
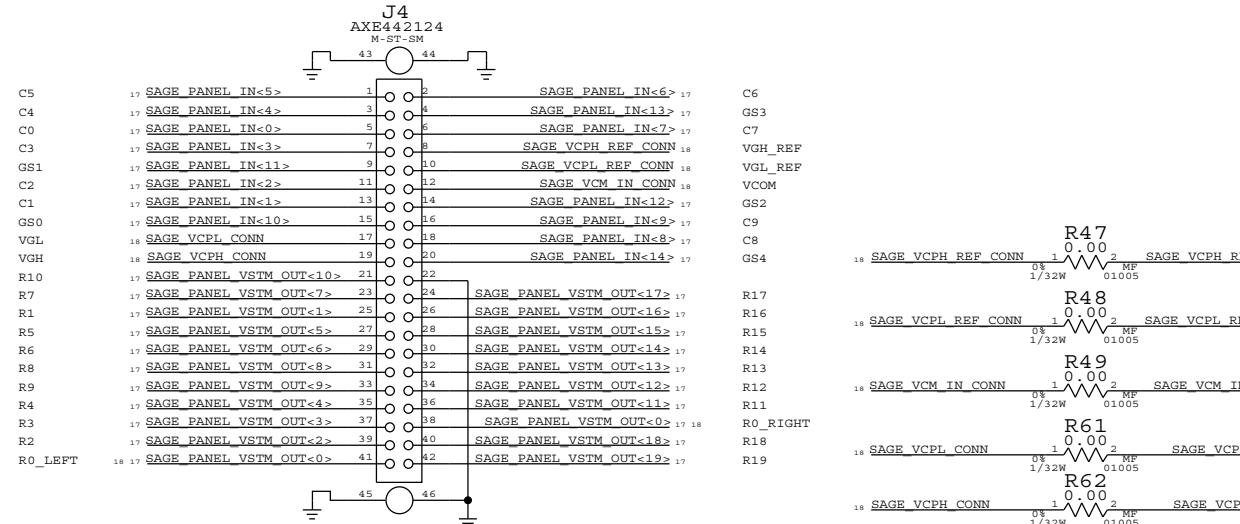
A

## LCM CONNECTOR



## GRAPE CONNECTOR

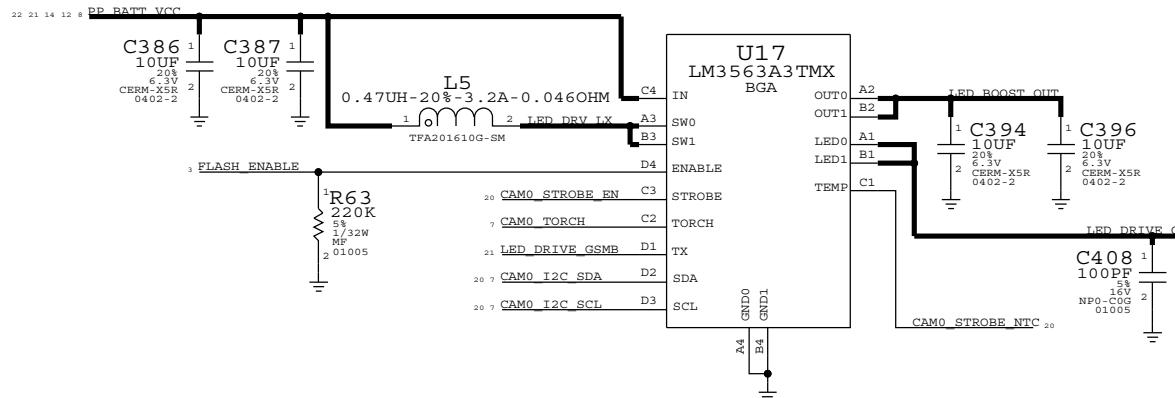
THIS ONE ON MLB ---> 516S0965 PLUG  
516S0966 RCPT (USED ON FLEX)



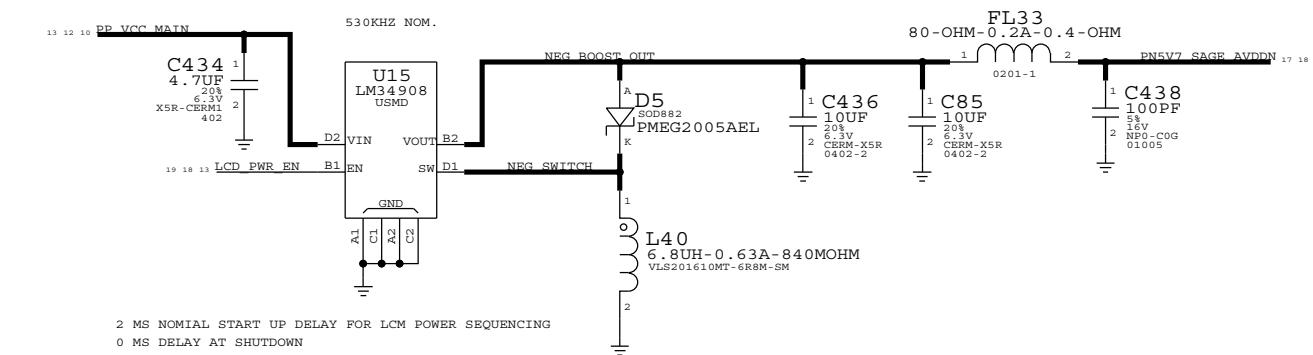
SYNC MASTER=N/A		SYNC DATE=N/A
PAGE TITLE		
LCM CONNECTOR		
Apple Inc.		DRAWING NUMBER 051-9113 D
REVISION 11.0.0		BRANCH
NOTICE OF PROPRIETARY PROPERTY:		
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC.		
THE POSSESSOR AGREES TO THE FOLLOWING:		
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE		
II NOT TO REPRODUCE OR COPY IT		
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART		
IV ALL RIGHTS RESERVED		

## LED DRIVER

I2C ADDRESS: 110001

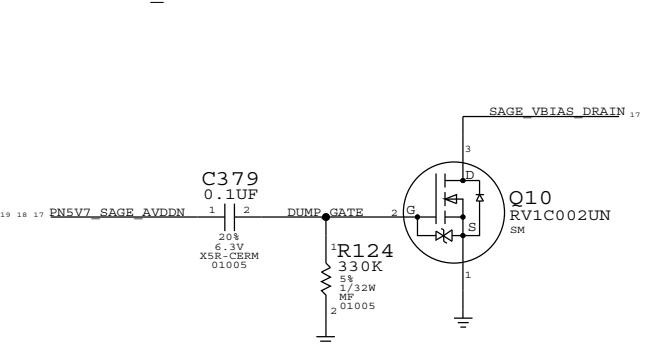


## NEGATIVE BOOST SUPPLY

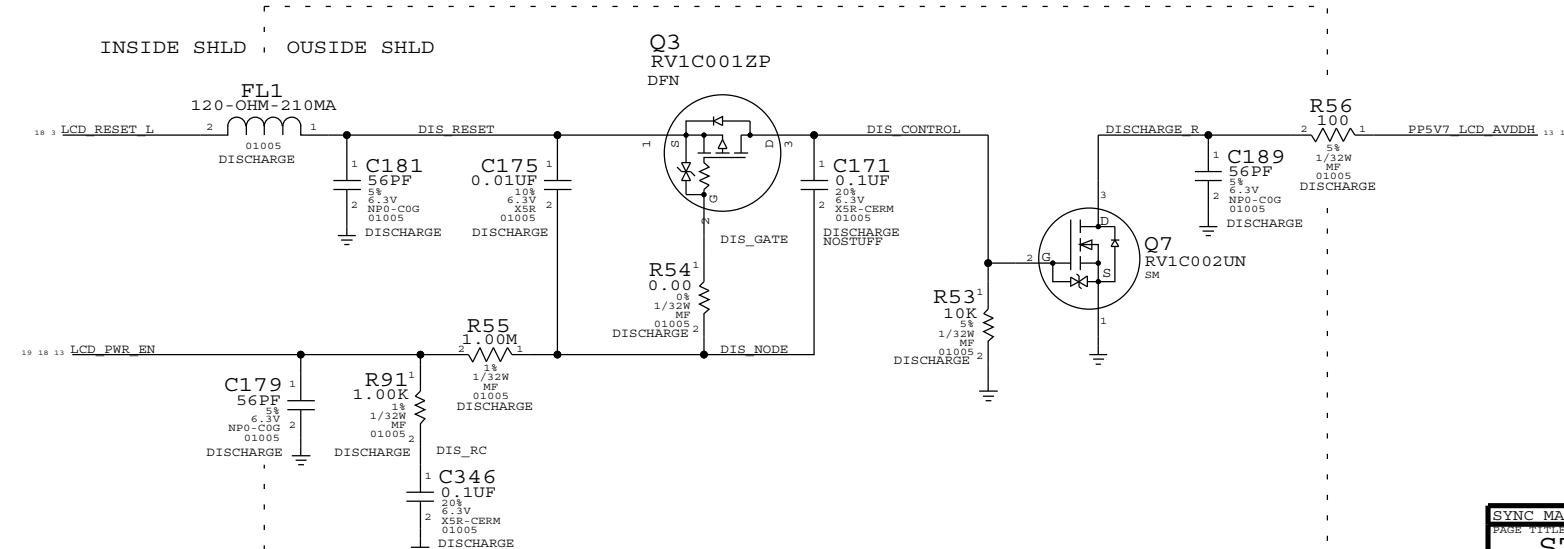


2 MS NOMIAL START UP DELAY FOR LCM POWER SEQUENCING  
0 MS DELAY AT SHUTDOWN  
ACTIVE DISCHARGE 2MS TO RAIL DOWN

### SAGE VBIAS DISCHARGE

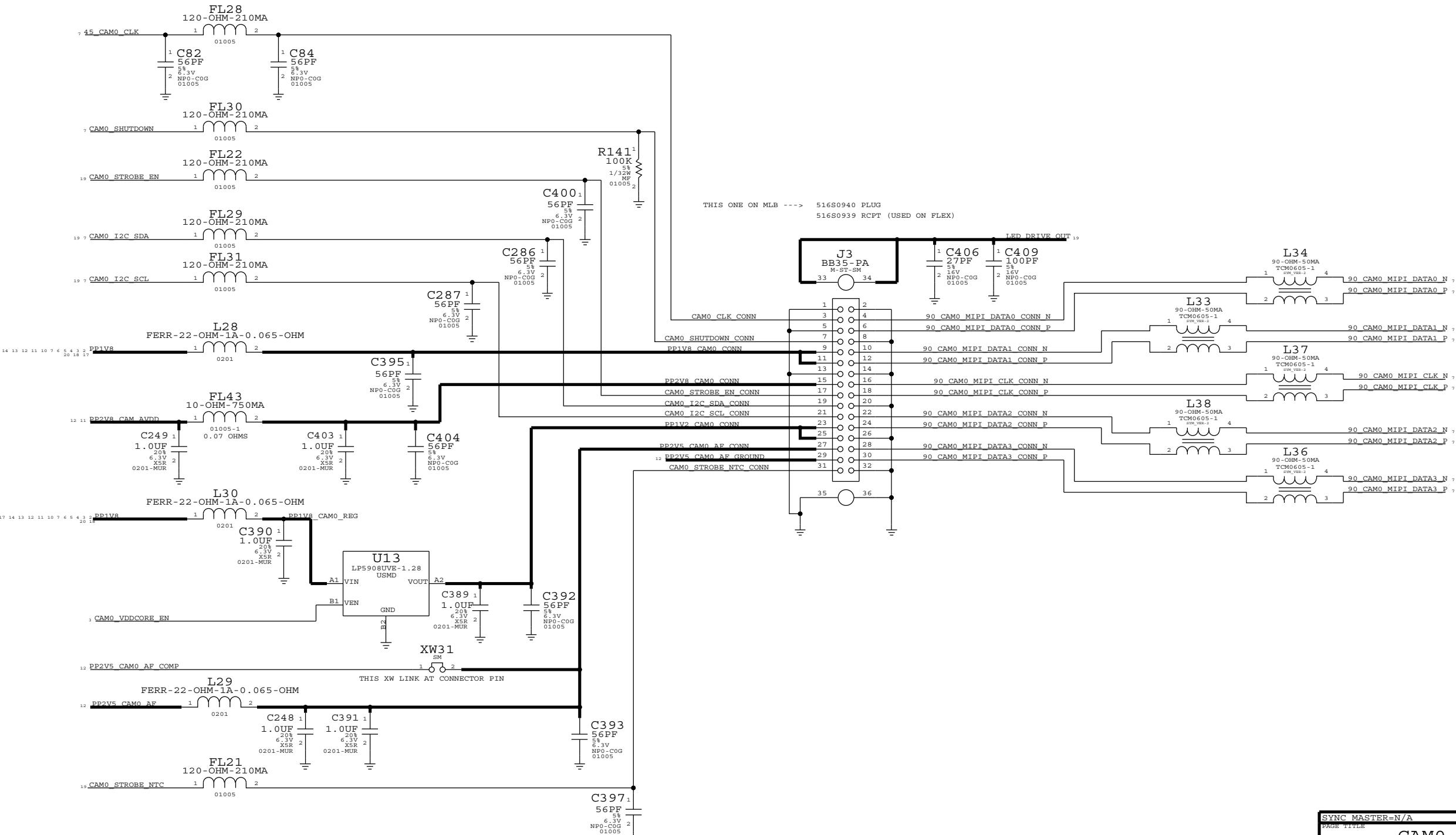


THIS CIRCUIT IS BEHIND THE SIM TRAY



SYNC MASTER=N/A	SYNC DATE=N/A
PAGE TITLE	STROBE & NEGATIVE RAIL
 Apple Inc.	DRAWING NUMBER 051-9113
	REVISION 11.0.0
NOTICE OF PROPRIETARY PROPERTY:	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:	
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED.	
BRANCH	PAGE 19 OF 24
SHEET	19 OF 51

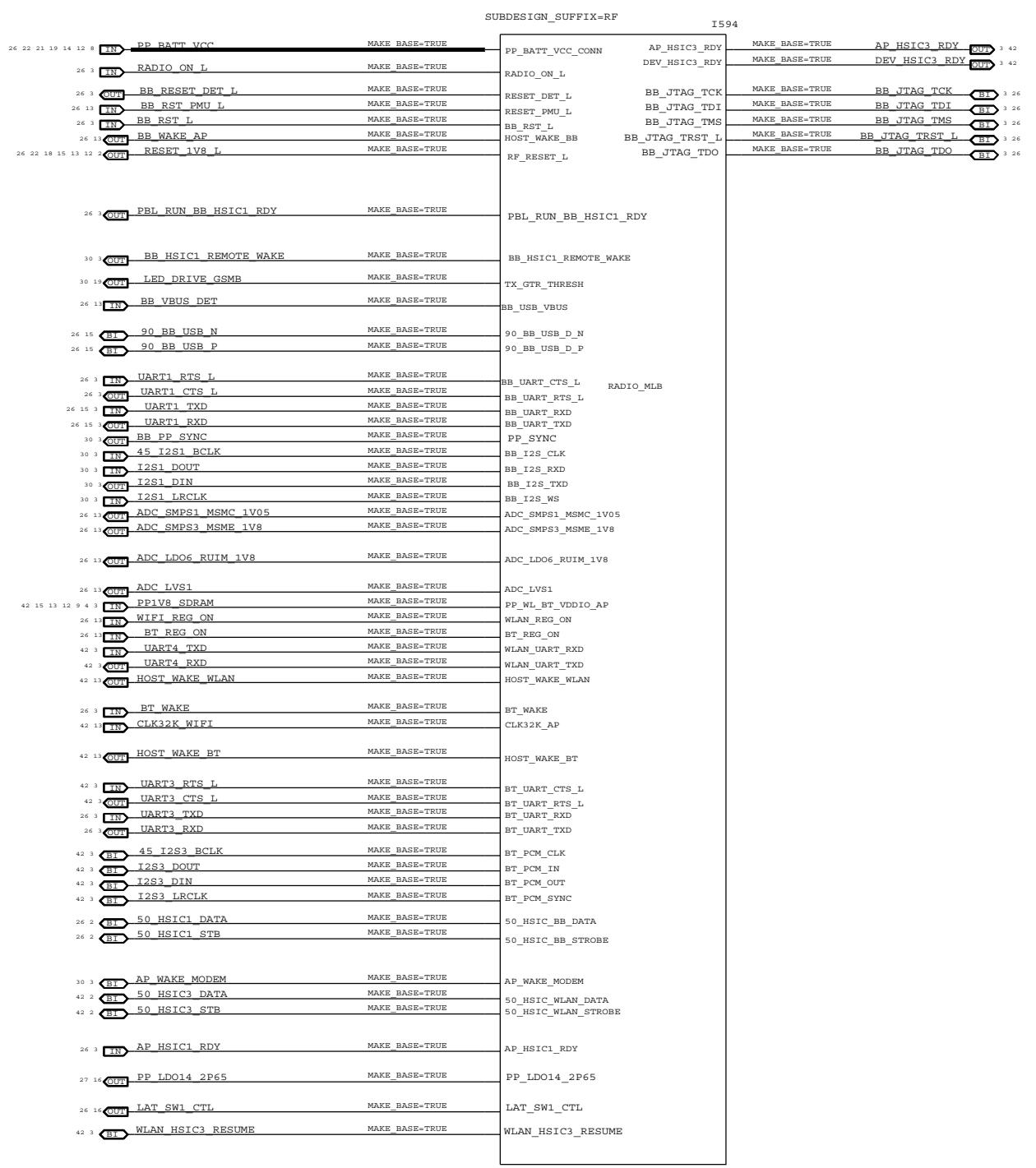
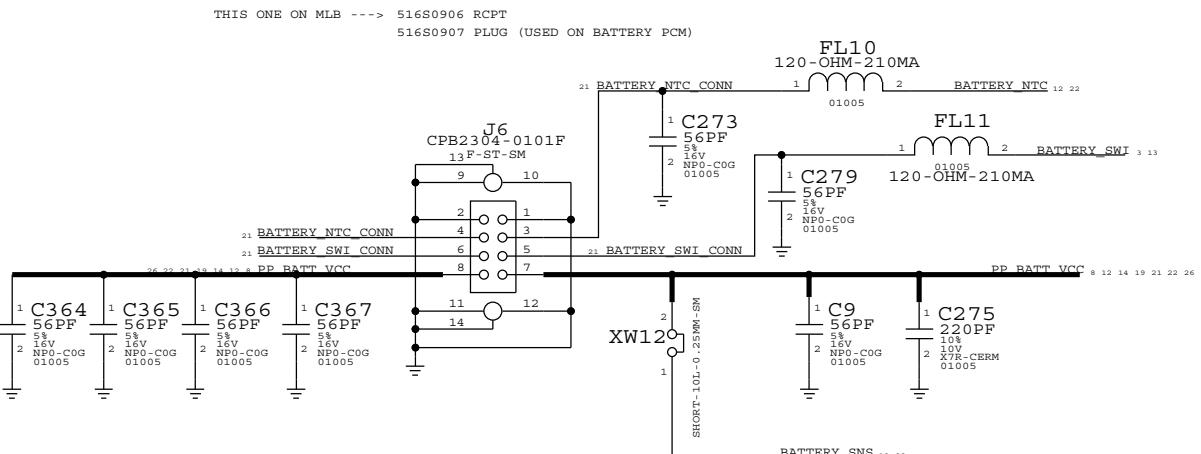
## CAM0 : MAIN CAMERA CONNECTOR



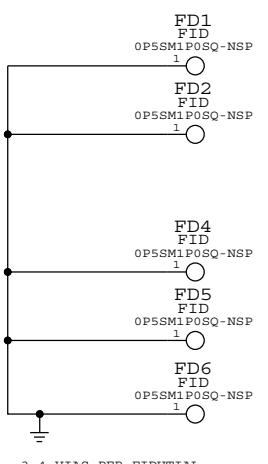
SYNC MASTER=N/A	SYNC DATE=N/A
PAGE TITLE	
CAM0 CONNECTOR	
Apple Inc.	DRAWING NUMBER 051-9113
11.0.0	REVISION
BRANCH	SHEET
20 OF 24	PAGE
20 OF 51	SHEET

## AP/RADIO INTERFACE

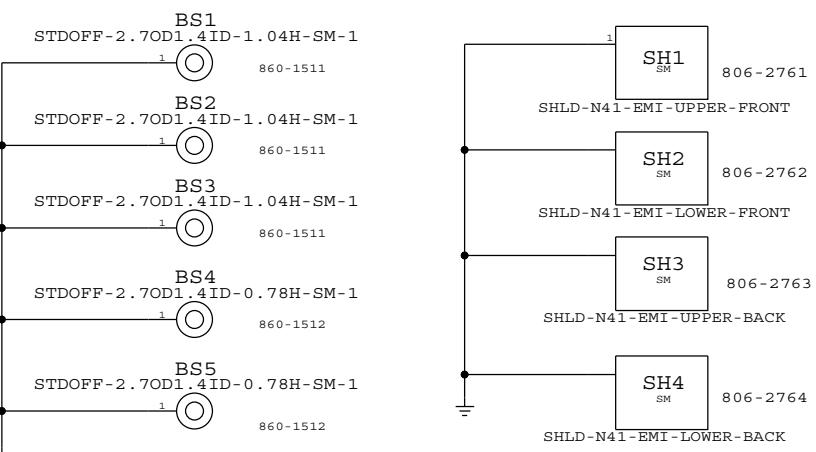
## BATTERY CONN



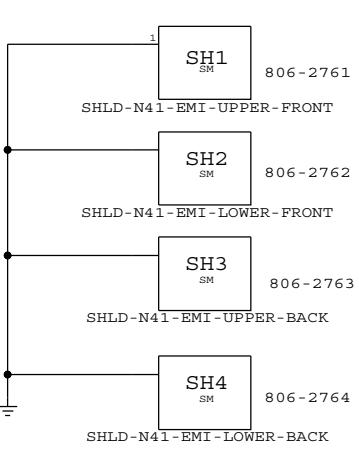
## FIDUCIALS



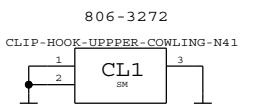
## STANOFFS



## SHIELDS



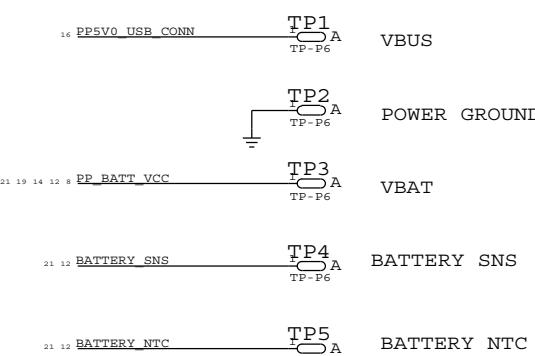
## UPPER COWLING CLIP/HOOK



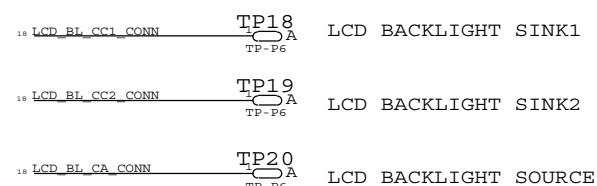
SYNC MASTER=N/A	SYNC DATE=N/A
PAGE TITLE: BATTERY & RF INT.	
DRAWING NUMBER: 051-9113 D	
REVISION: 11.0.0	
BRANCH:	
PAGE: 21 OF 24	
SHEET: 21 OF 51	

NOTICE OF PROPRIETARY PROPERTY:  
THE INFORMATION CONTAINED HEREIN IS THE  
PROPRIETARY PROPERTY OF APPLE INC.  
THE POSSESSOR AGREES TO THE FOLLOWING:  
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE  
II NOT TO REPRODUCE OR COPY IT  
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART  
IV ALL RIGHTS RESERVED

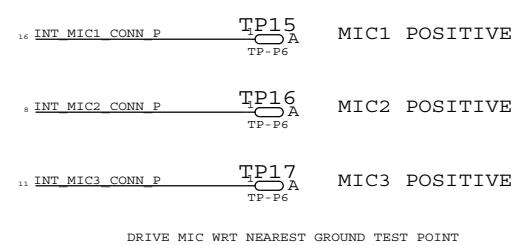
## POWER TP



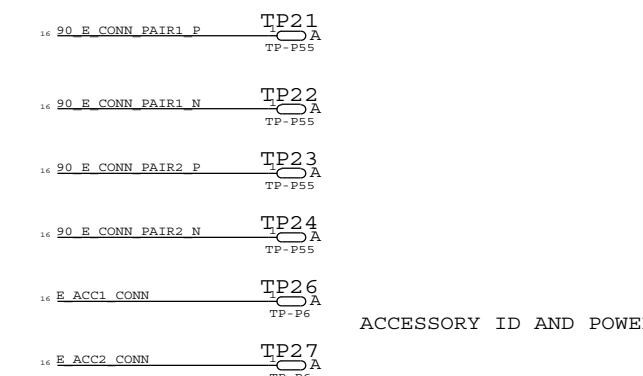
## LCM BACKLIGHT



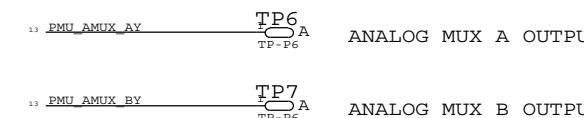
## MIC AUDIO



## E75 - USB/UART/ID/POWER



## SUPER TP



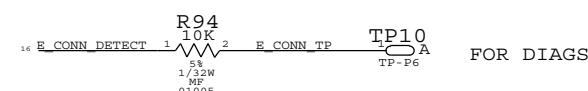
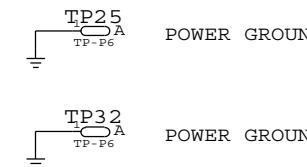
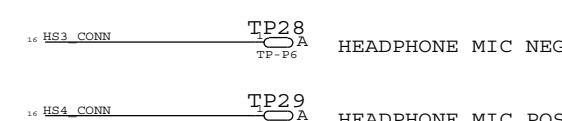
## RESET



## DFU



## HEADPHONE MIC



SYNC MASTER=N/A	SYNC DATE=N/A
PAGE TITLE	
DRAWING NUMBER	051-9113 D
REVISION	11.0.0
BRANCH	
PAGE	22 OF 24
SHEET	22 OF 51
NOTICE OF PROPRIETARY PROPERTY:	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC.	
THE POSSESSOR AGREES TO THE FOLLOWING:	
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE	
II NOT TO REPRODUCE OR COPY IT	
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART	
IV ALL RIGHTS RESERVED	

# RADIO BOM OPTIONS

CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.

## HW ID PA ID BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
118S0685	1	PA_ID RES DIVIDER	R304_RF	Y	B4_17
118S0656	1	PA_ID RES DIVIDER	R304_RF	Y	B3_13
118S0719	1	PA_ID RES DIVIDER	R302_RF	Y	B4_17
118S0685	1	PA_ID RES DIVIDER	R302_RF	Y	B3_13

## SPI NOR BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S0874	1	SERIAL SPI NOR - MICRONIX	U601_RF	Y	B4_17
335S0874	1	SERIAL SPI NOR - MICRONIX	U601_RF	Y	B3_13

## B5/B5E BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S3415	1	SKY77487 BAND 5/8 PAD	U1001_RF	Y	B4_17
353S3568	1	SKY77491 BAND5E/8 PAD	U1001_RF	Y	B3_13
155S0552	1	BANDS TX SAW	FL1001_RF	Y	B4_17
155S0742	1	BAND5/BC10 TX SAW	FL1001_RF	Y	B3_13
152S1563	1	1.5NH. INDUCTOR - MURATA	L1001_RF	Y	B4_17
152S1662	1	1.5NH. INDUCTOR - TDK	L1001_RF	Y	B3_13
152S1577	1	15NH. INDUCTOR - MURATA	L1002_RF	Y	B4_17
152S1665	1	15NH. INDUCTOR - TDK	L1002_RF	Y	B3_13
152S1576	1	12NH. INDUCTOR - MURATA	L1003_RF	Y	B4_17
152S1664	1	12NH. INDUCTOR - TDK	L1003_RF	Y	B3_13
152S1570	1	4.7NH. INDUCTOR - MURATA	L1010_RF	Y	B4_17
152S1663	1	4.7NH. INDUCTOR - TDK	L1010_RF	Y	B3_13

## B13/17 BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1328	1	4.3NH INDUCTOR - 0201	C1111_RF	Y	B4_17
152S1353	1	3.6NH INDUCTOR - 0201	C1111_RF	Y	B3_13
131S0198	1	1.8PF CAPACITOR - 0201	L1103_RF	Y	B4_17
118S0724	1	0 OHM JUMPER - 0201	C1112_RF	Y	B4_17
131S0204	1	22PF CAPACITOR - 0201	C1112_RF	Y	B3_13
118S0724	1	0 OHM JUMPER - 0201	L1105_RF	Y	B4_17
152S1443	1	2.0NH INDUCTOR - 0201	L1105_RF	Y	B3_13
152S1320	1	7.5NH INDUCTOR - 0201	C1113_RF	Y	B4_17
131S0166	1	39PF CAPACITOR - 0201	C1113_RF	Y	B3_13
131S0176	1	2.4PF CAPACITOR - 0201	C1117_RF	Y	B4_17

## DCDC BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1648	1	POWER INDUCTOR - TAIYO YUDEN	L1201_RF	Y	B4_17
152S1648	1	POWER INDUCTOR - TAIYO YUDEN	L1201_RF	Y	B3_13
152S1570	1	4.7NH. INDUCTOR - MURATA	L1205_RF	Y	B4_17
152S1663	1	4.7NH. INDUCTOR - TDK	L1205_RF	Y	B3_13

## WIFI BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
339S0171	1	WIFI MODULE - MURATA	U1801_RF	Y	B4_17
339S0171	1	WIFI MODULE - MURATA	U1801_RF	Y	B3_13

## DIVERSITY MODULE BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S3516	1	B17 MURATA DIVERSITY MODULE	U1601_RF	Y	B4_17
353S3562	1	B13/BC10 DIVERSITY MODULE	U1601_RF	Y	B3_13

## B3/DCS1800 BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
155S0596	1	DCS1800 RX FIL	FL1301_RF	Y	B4_17
155S0729	1	BAND3 RX FIL	FL1301_RF	Y	B3_13
155S0695	1	THRU LINE	FL1302_RF	Y	B4_17
155S0722	1	BAND13 TX LPF	FL1302_RF	Y	B3_13
152S1656	1	3.0NH INDUCTOR	R1301_RF	Y	B3_13
117S0161	1	0OHM RES	R1302_RF	Y	B4_17
118S0652	1	49.90HM RES	R1303_RF	Y	B3_13
118S0652	1	49.90HM RES	R1305_RF	Y	B4_17
152S1562	1	1.2NH INDUCTOR	L1304_RF	Y	B4_17
152S1720	1	1.8NH INDUCTOR	L1304_RF	Y	B3_13
152S1562	1	1.2NH INDUCTOR	L1305_RF	Y	B4_17
152S1720	1	1.8NH INDUCTOR	L1305_RF	Y	B3_13
152S1569	1	3.9NH INDUCTOR	L1301_RF	Y	B4_17
152S1570	1	4.7NH INDUCTOR	L1301_RF	Y	B3_13

## B3/B4 RX BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1570	1	4.7NH INDUCTOR - 0100S	C1414_RF	Y	B4_17
131S0375	1	1.0PF CAPACITOR - 0100S	C1415_RF	Y	B4_17
131S0375	1	1.0PF CAPACITOR - 0100S	C1420_RF	Y	B4_17
152S1570	1	4.7NH INDUCTOR - 0100S	L1416_RF	Y	B4_17
152S1571	1	5.6NH INDUCTOR - 0100S	C1414_RF	Y	B3_13
131S0377	1	1.2PF CAPACITOR - 0100S	C1415_RF	Y	B3_13
131S0377	1	1.2PF CAPACITOR - 0100S	C1420_RF	Y	B3_13
152S1571	1	5.6NH INDUCTOR - 0100S	L1416_RF	Y	B3_13
131S0219	1	10PF CAPACITOR - 0100S	L1420_RF	Y	B4_17
131S0219	1	10PF CAPACITOR - 0100S	L1421_RF	Y	B4_17
152S1562	1	1.2NH INDUCTOR - 0100S	L1420_RF	Y	B3_13
152S1562	1	1.2NH INDUCTOR - 0100S	L1421_RF	Y	B3_13
152S1328	1	4.3NH INDUCTOR - 0201	R1402_RF	Y	B4_17
152S1688	1	3.5NH INDUCTOR - 0201	C1416_RF	Y	B4_17
152S1284	1	3.3NH INDUCTOR - 0201	R1402_RF	Y	B3_13
152S1284	1	3.3NH INDUCTOR - 0201	C1416_RF	Y	B3_13

## B3/B4 TX BOM OPTIONS

| PART# | QTY | DESCRIPTION | REFERENCE DESIGNATOR(S) | CRITICAL | BOM OPTION |
</tr
| --- | --- | --- | --- | --- | --- |

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

D

D

C

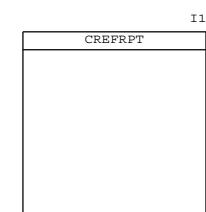
C

B

B

A

A



51

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%.  
 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS.  
 3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.

REV	ECN	DESCRIPTION OF REVISION	CK APPD DATE
11	0001447874	ENGINEERING RELEASED	2012-05-02

CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.

# N41\_RADIO\_MLB SUBDESIGN

## RADIO - 04/30/2012: SUBDESIGN

### PAGE CONTENTS

- 02 AP INTERFACE AND DEBUG CONNECTORS
- 03 BASEBAND PMU (1 OF 2)
- 04 BASEBAND PMU (2 OF 2)
- 05 BASEBAND (1 OF 2)
- 06 BASEBAND (2 OF 2) & SERIAL EEPROM
- 07 RF TRANSCEIVER (1 OF 3)
- 08 RF TRANSCEIVER SWITCHING NETWORKS (2 OF 3)
- 09 RF TRANSCEIVER DECOUPLING (3 OF 3)
- 10 BAND 5/8 PAD
- 11 BAND 13 INTERSTAGE, PA, AND DUPLEXER
- 12 2G PA, PA DCDC CONVERTER
- 13 ASM, DCS RX
- 14 BAND 1/4 PAD
- 15 BAND 2 PAD
- 16 RX DIVERSITY
- 17 GPS
- 18 WLAN/BT
- 19 BOM OPTION TABLES

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
051-9119	1	N41_RADIO_MLB	SCH	Y	
825-2029	1	EEE FOR 639-2482	EEEE_DNVN	Y	B4_17
825-2029	1	EEE FOR 639-3241	EEEE_DW3L	Y	B3_13

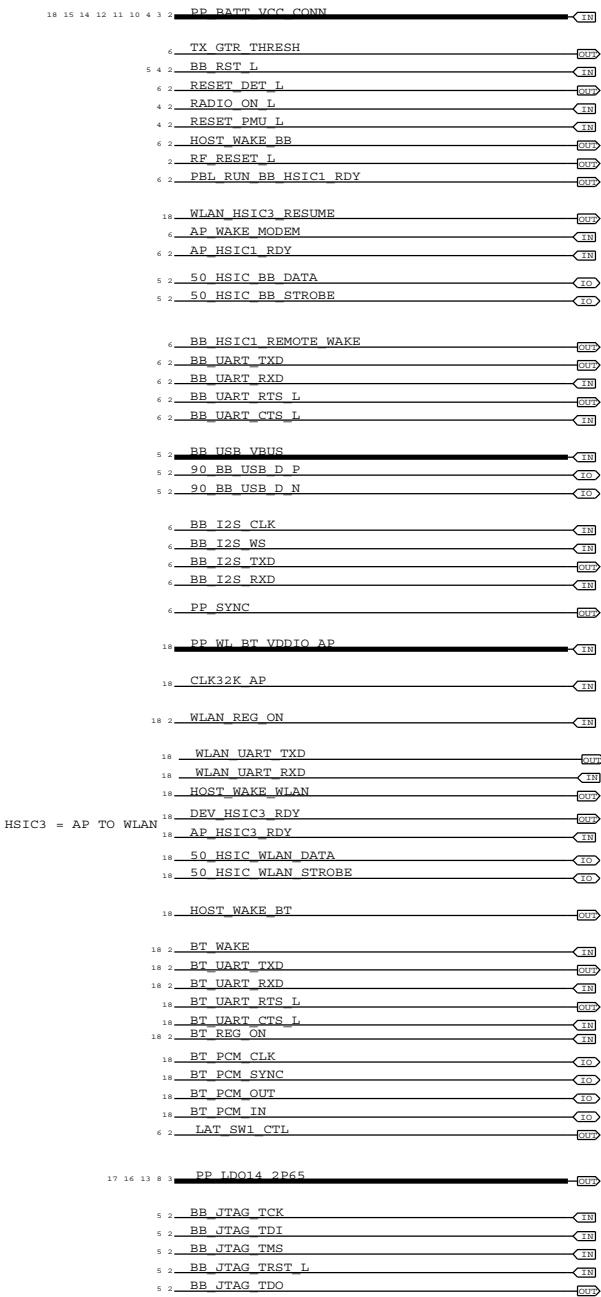
SCH #: 051-9119  
 BOM {B4\_17} : 639-2482  
 BOM {B3\_13} : 639-3241

DRAWING TITLE		DRAWING NUMBER	SIZE
		051-9113	D
		REVISION	11.0.0
		BRANCH	
		PAGE	1 OF 19
		SHEET	25 OF 51
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED			

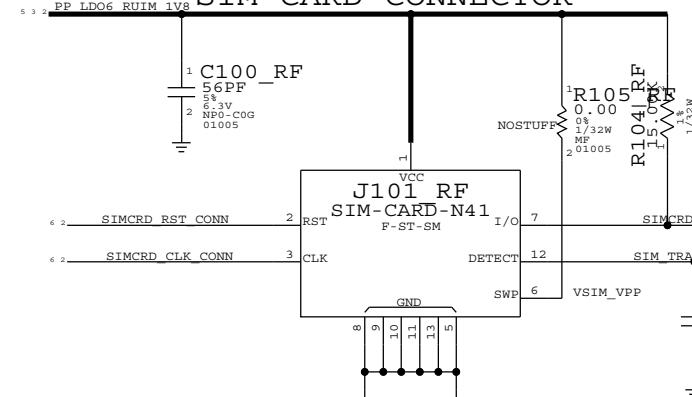
# AP INTERFACE & DEBUG CONNECTOR

CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.

## AP CONNECTIONS



## SIM CARD CONNECTOR

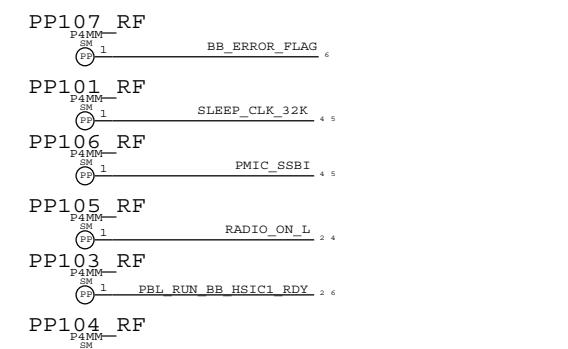


SHORT-10L-0.1MM-SM  
PP SMPS1 MSMC 1V05 XW201 RF 2 ADC SMPS1 MSMC 1V05

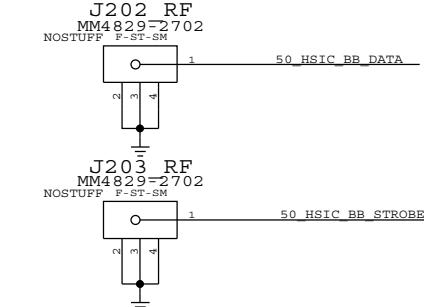
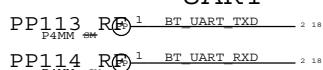
SHORT-10L-0.1MM-SM  
PP SMPS3 MSME 1V8 XW202 RF 2 ADC SMPS3 MSME 1V8

SHORT-10L-0.1MM-SM  
PP LDO6 RUIM 1V8 XW204 RF 2 ADC LDO6 RUIM 1V8

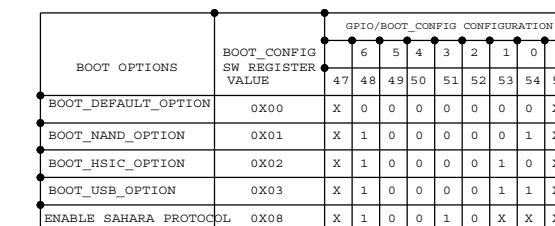
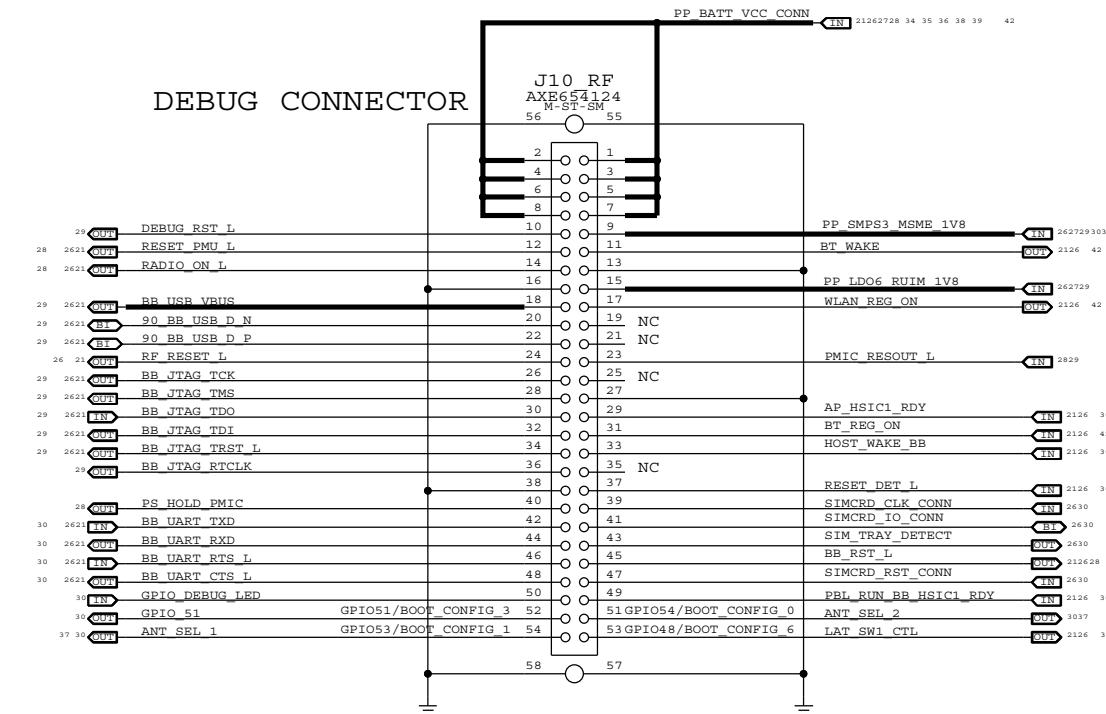
SHORT-10L-0.1MM-SM  
PP LVS1 XW206 RF 2 ADC LVS1



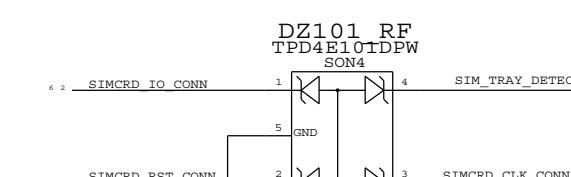
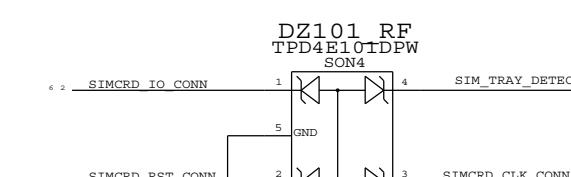
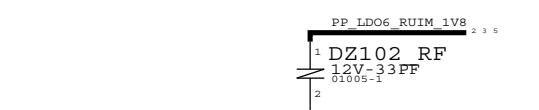
## UART



## DEBUG CONNECTOR



R R105  
C C101  
XWXW206  
DZDZ101  
U U101



SYSTEM & DEBUG CONNECTORS	
Apple Inc.	DRAWING NUMBER 051-9113 D
NOTICE OF PROPRIETARY PROPERTY:	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC.	
THE POSSESSOR AGREES TO THE FOLLOWING:	
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE	
II NOT TO REPRODUCE OR COPY IT	
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART	
IV ALL RIGHTS RESERVED	
R R105 C C101 XWXW206 DZDZ101 U U101	
REVISION 11.0.0	
BRANCH	
PAGE 2 OF 19	
SHEET 26 OF 51	

# BASEBAND PMU (1 OF 2)

CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.

D

D

C

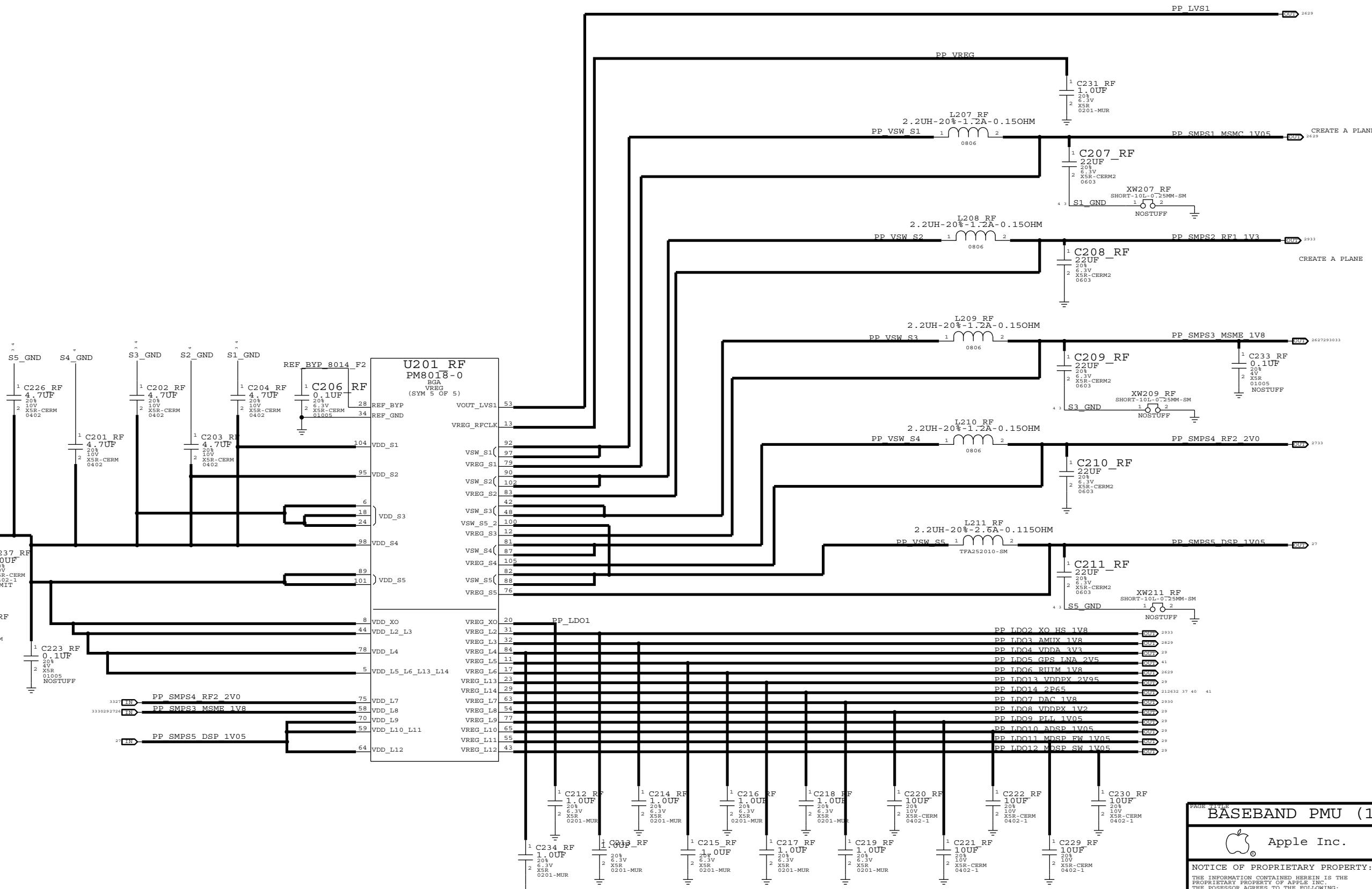
C

B

B

A

A



BASEBAND PMU (1 OF 2)

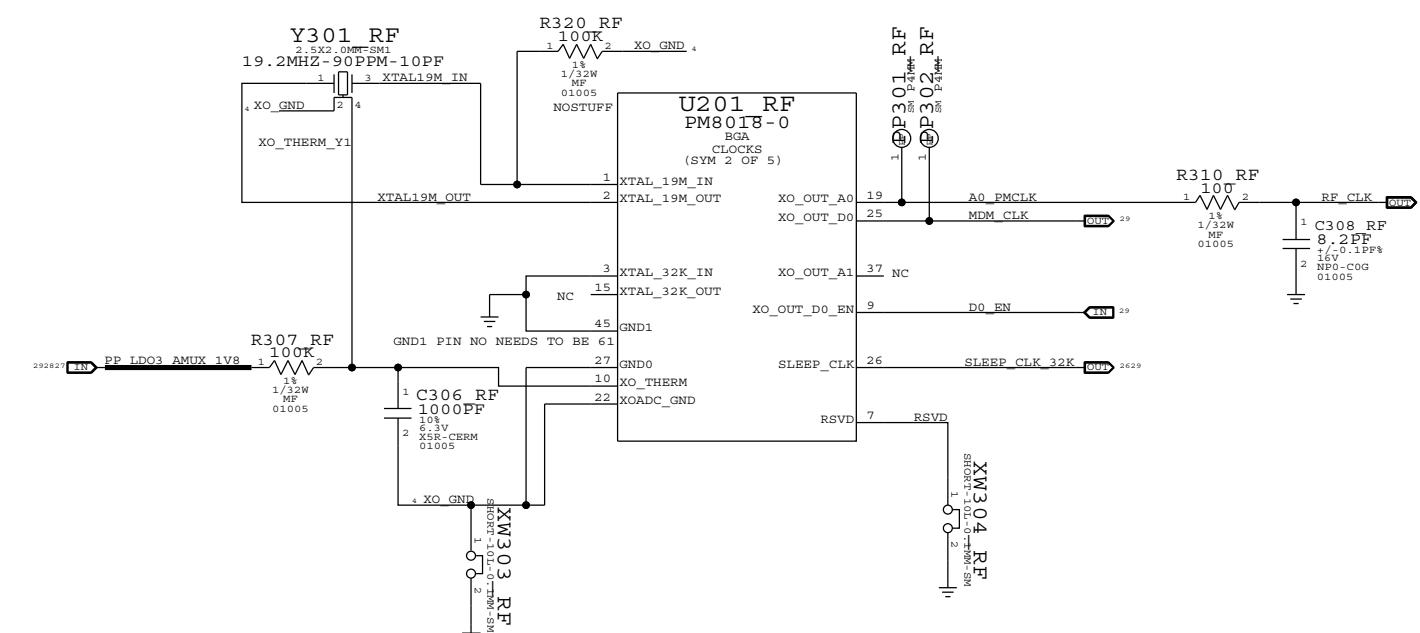
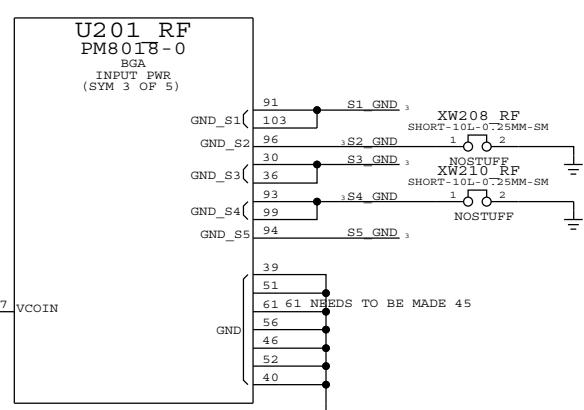
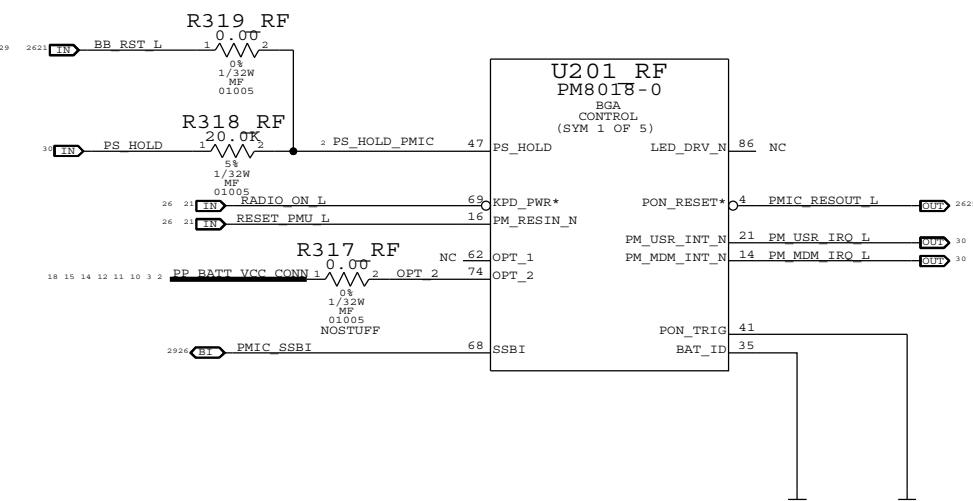
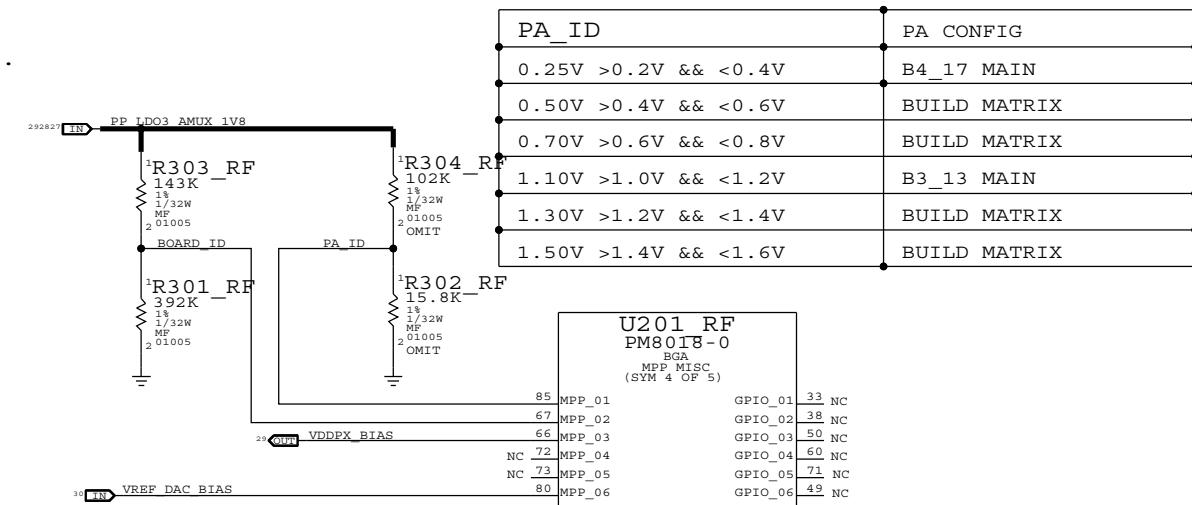
Apple Inc.	D
DRAWING NUMBER	051-9113
REVISION	11.0.0
BRANCH	
PAGE	3 OF 19
SHEET	27 OF 51

NOTICE OF PROPRIETARY PROPERTY:  
 THE INFORMATION CONTAINED HEREIN IS THE  
 PROPRIETARY PROPERTY OF APPLE INC.  
 THE POSSESSOR AGREES TO THE FOLLOWING:  
 I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE  
 II NOT TO REPRODUCE OR COPY IT  
 III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART  
 IV ALL RIGHTS RESERVED

# BASEBAND PMU (2 OF 2)

CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.

BOARD_ID	REVISION
0.25V : >0.2V && <0.4V	PROTO1
0.50V : >0.4V && <0.6V	PROTO2
0.70V : >0.6V && <0.8V	PROTO3
0.90V : >0.8V && <1.0V	EVT1
1.10V : >1.0V && <1.2V	EVT2
1.30V : >1.2V && <1.4V	EVT3

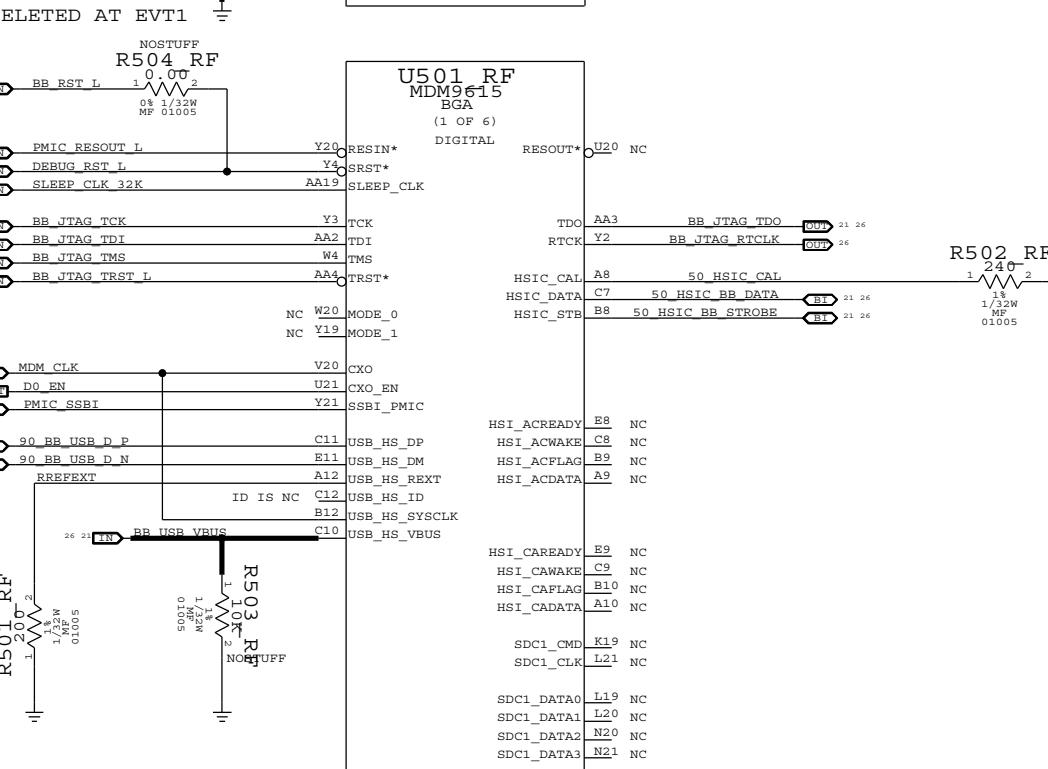
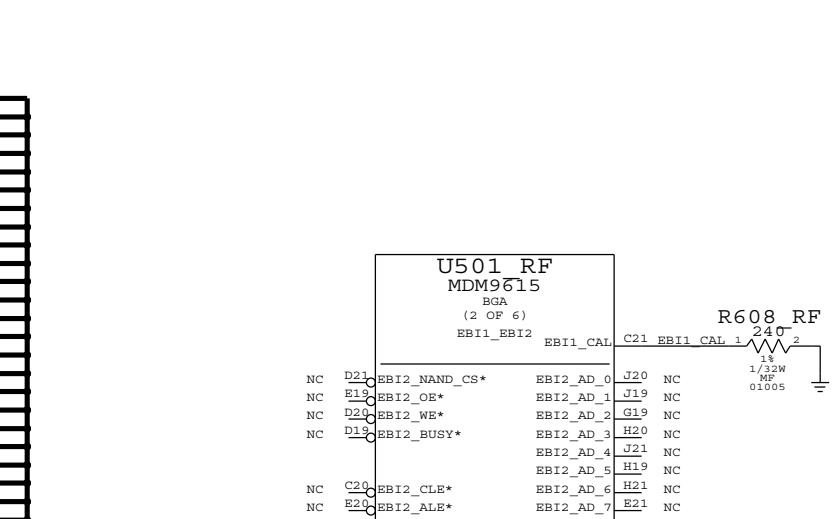
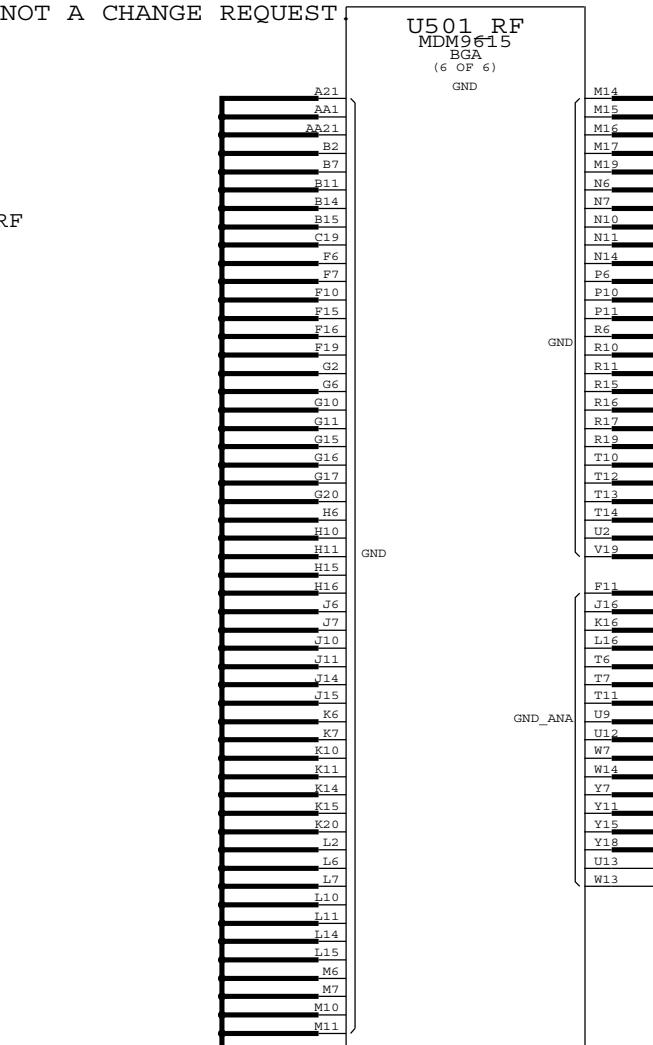
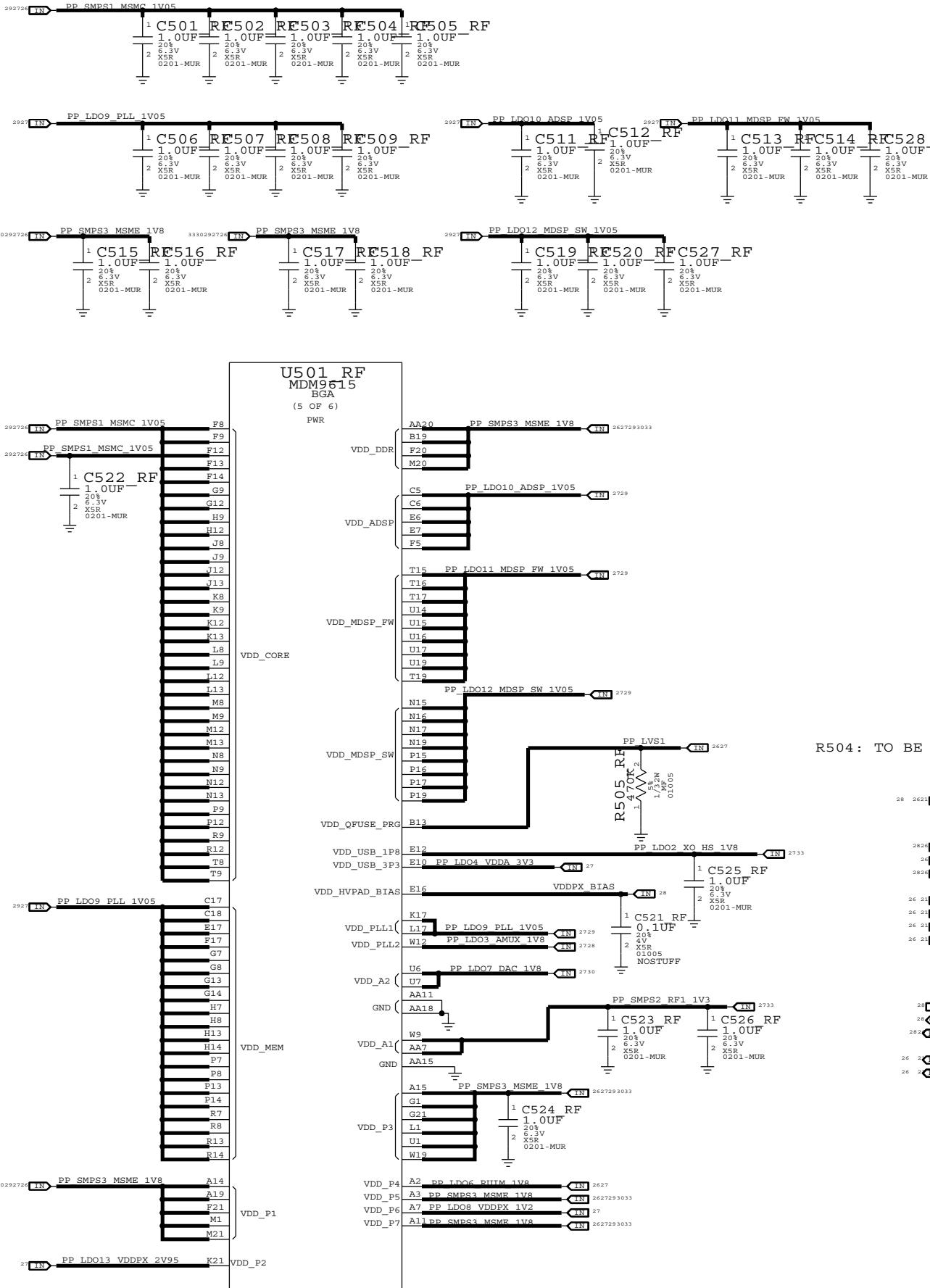


R R320  
C C309  
L LXXX  
U U301  
XW XW305

PAGE TITLE	BASEBAND PMU (2 OF 2)	
DRAWING NUMBER	051-9113	SHEET D
REVISION	11.0.0	
NOTICE OF PROPRIETARY PROPERTY:	THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED	
BRANCH		
PAGE	4 OF 19	
SHEET	28 OF 51	

# BASEBAND (1 OF 2)

CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST



R R502  
C C528  
L LXXX  
U U501

PAGE TITLE	
Apple Inc.	
DRAWING NUMBER	051-9113
SIZE	D
REVISION	11.0.0
BRANCH	
PAGE	5 OF 19
SHEET	29 OF 51

# BASEBAND (2 OF 2)

CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.

D

D

C

C

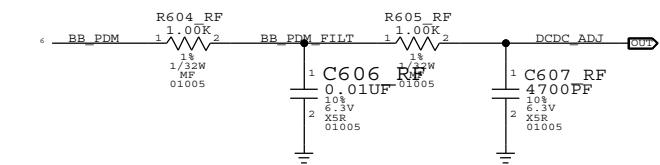
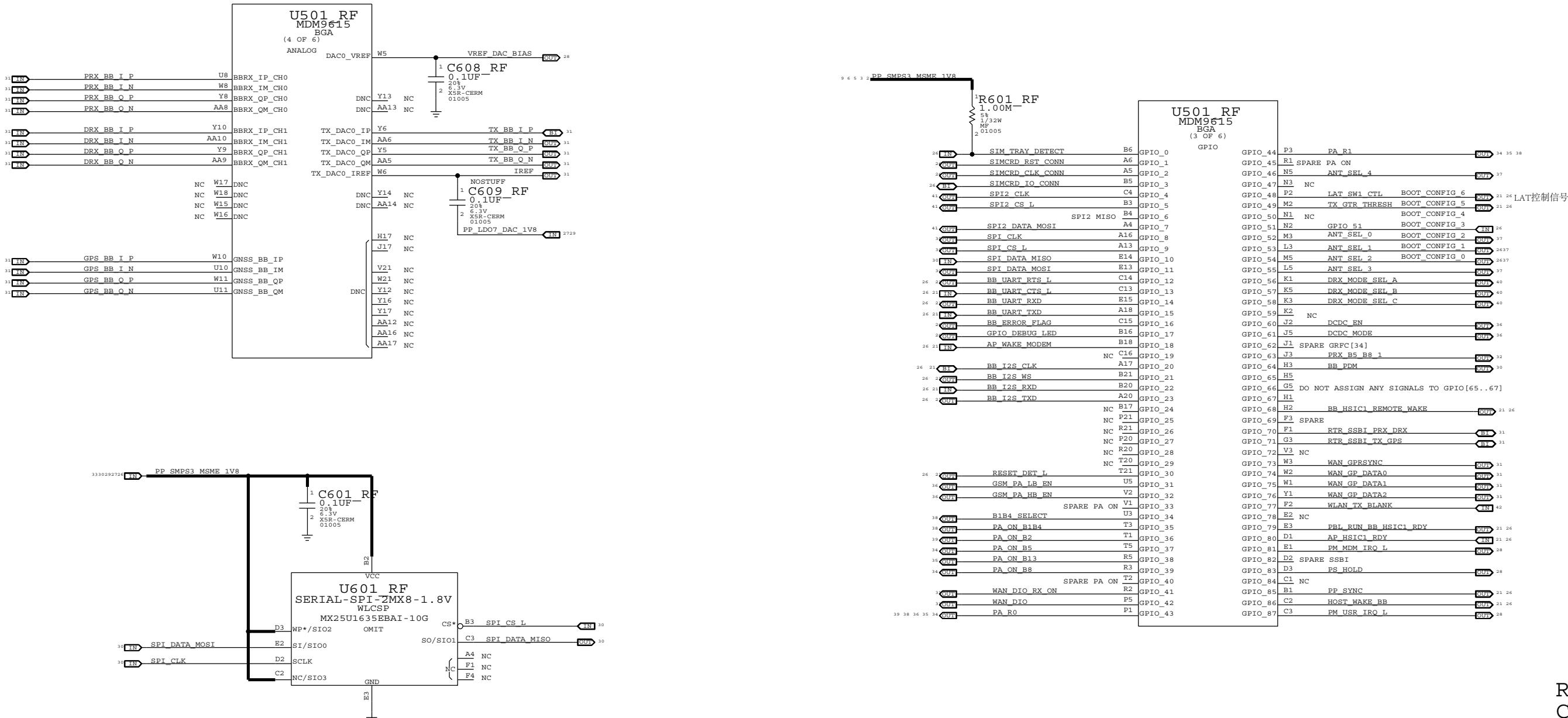
B

B

A

A

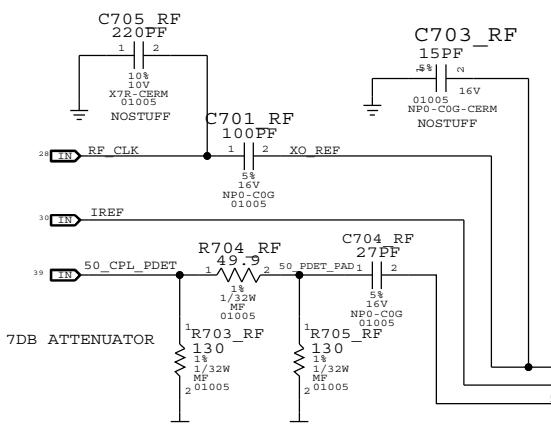
R R608  
C C609  
L L601



PAGE TITLE		MOBILE DATA MODEM (2 OF 2)	
DRAWING NUMBER		SIZE	
REVISION		051-9113 D	
BRANCH		11.0.0	
PAGE		6 OF 19	
SHEET		30 OF 51	
NOTICE OF PROPRIETARY PROPERTY:		THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING:	
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE		II NOT TO REPRODUCE OR COPY IT	
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART		IV ALL RIGHTS RESERVED	

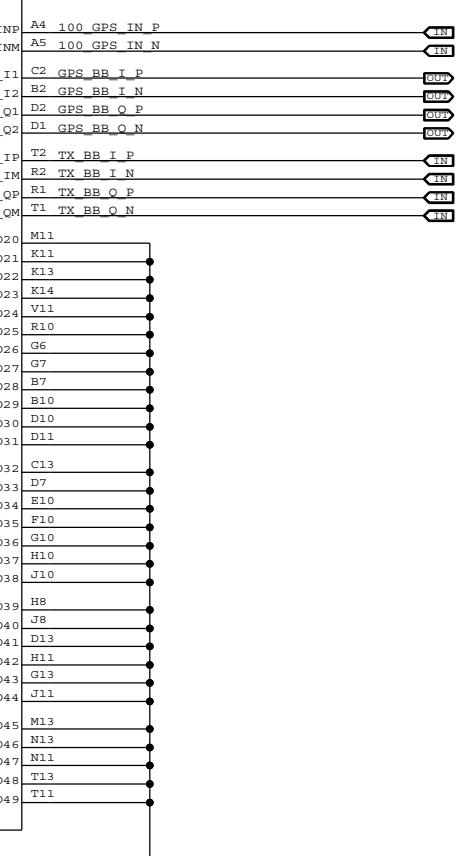
# RF TRANSCEIVER (1 OF 3)

CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.



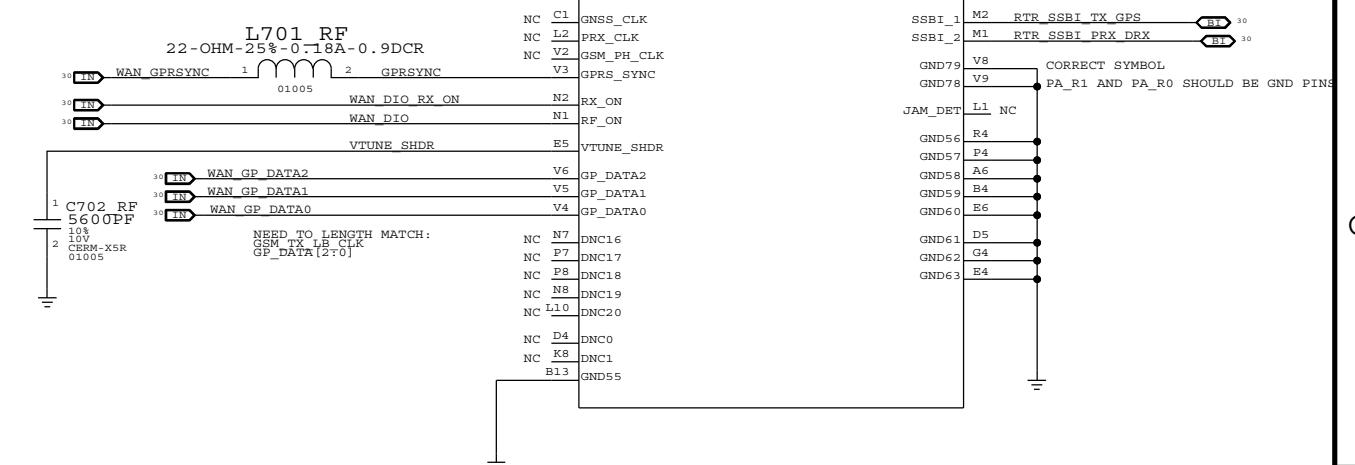
TRANSCEIVER RF AND IQ PORTS

U701 RF  
TRANSCEIVER  
BGA196  
(3 OF 4)



TRANSCEIVER PHASE CONTROL PORTS

U701 RF  
TRANSCEIVER  
BGA196  
(1 OF 4)



R R705  
C C705  
L L701  
U U701

PAGE TITLE		RF TRANSCEIVER (1 OF 3)	
DRAWMNG NUMBER		051-9113 D	
REVISION		11.0.0	
BRANCH			
PAGE		7 OF 19	
SHEET		31 OF 51	
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED			

# RF TRANSCEIVER SWITCHING NETWORKS (2 OF 3)

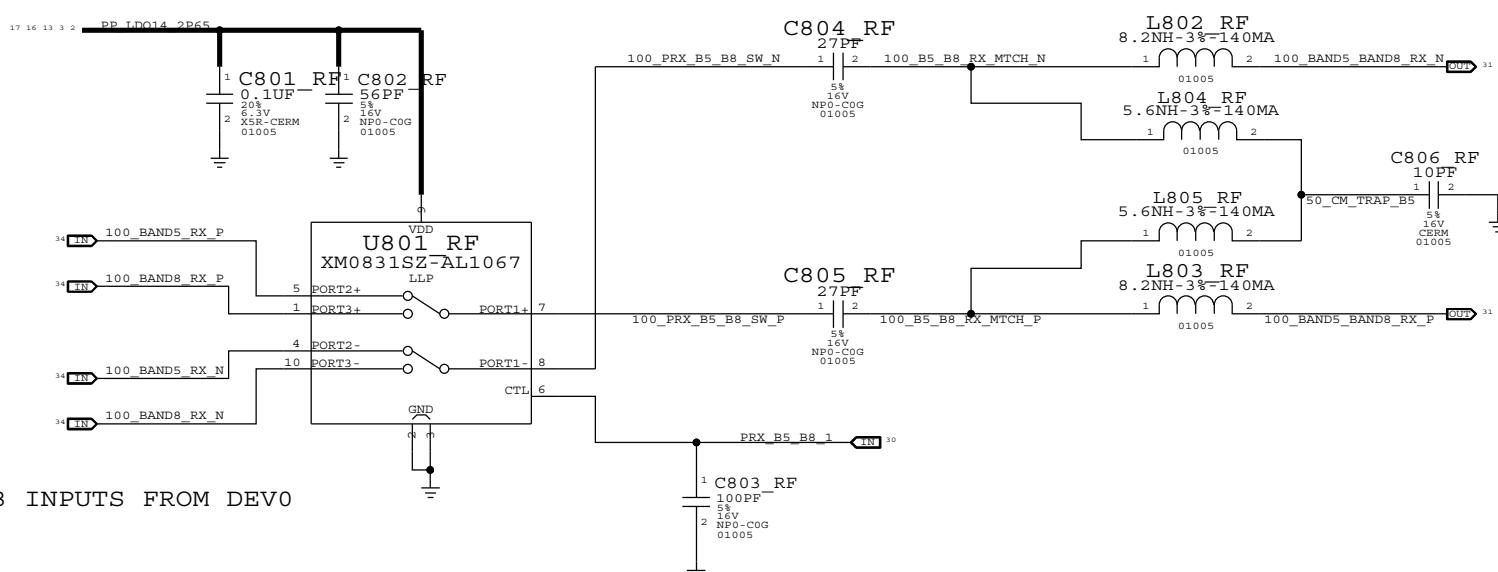
CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.

BAND 5/BAND 8 PRX TRANSCEIVER SWITCH

XM0830SZ SWITCH LOGIC

PRX_B5_B8	ACTIVE BAND	PORT
HIGH	8	PORT 1 TO PORT 3
LOW	5	PORT 1 TO PORT 2

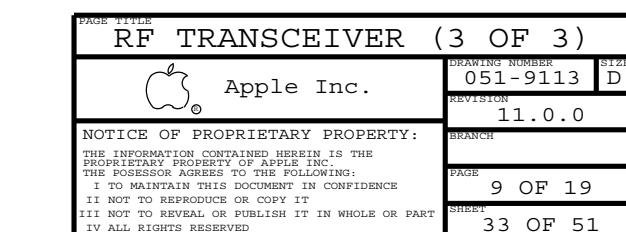
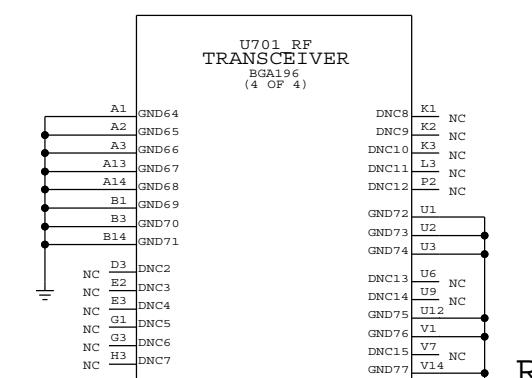
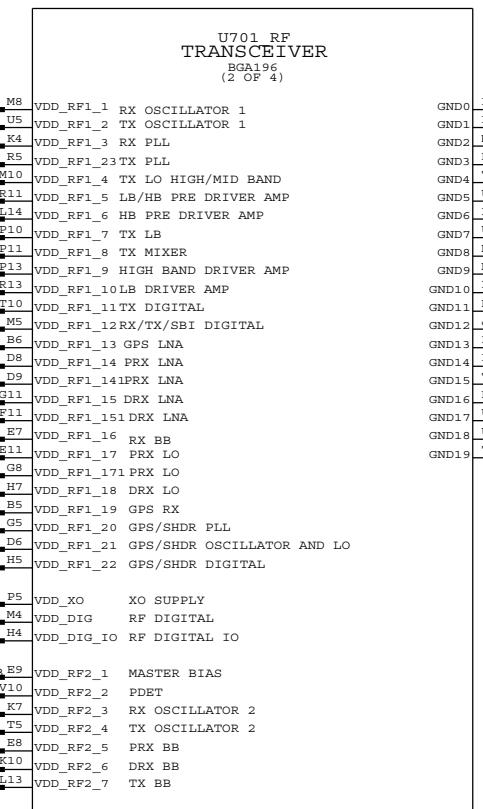
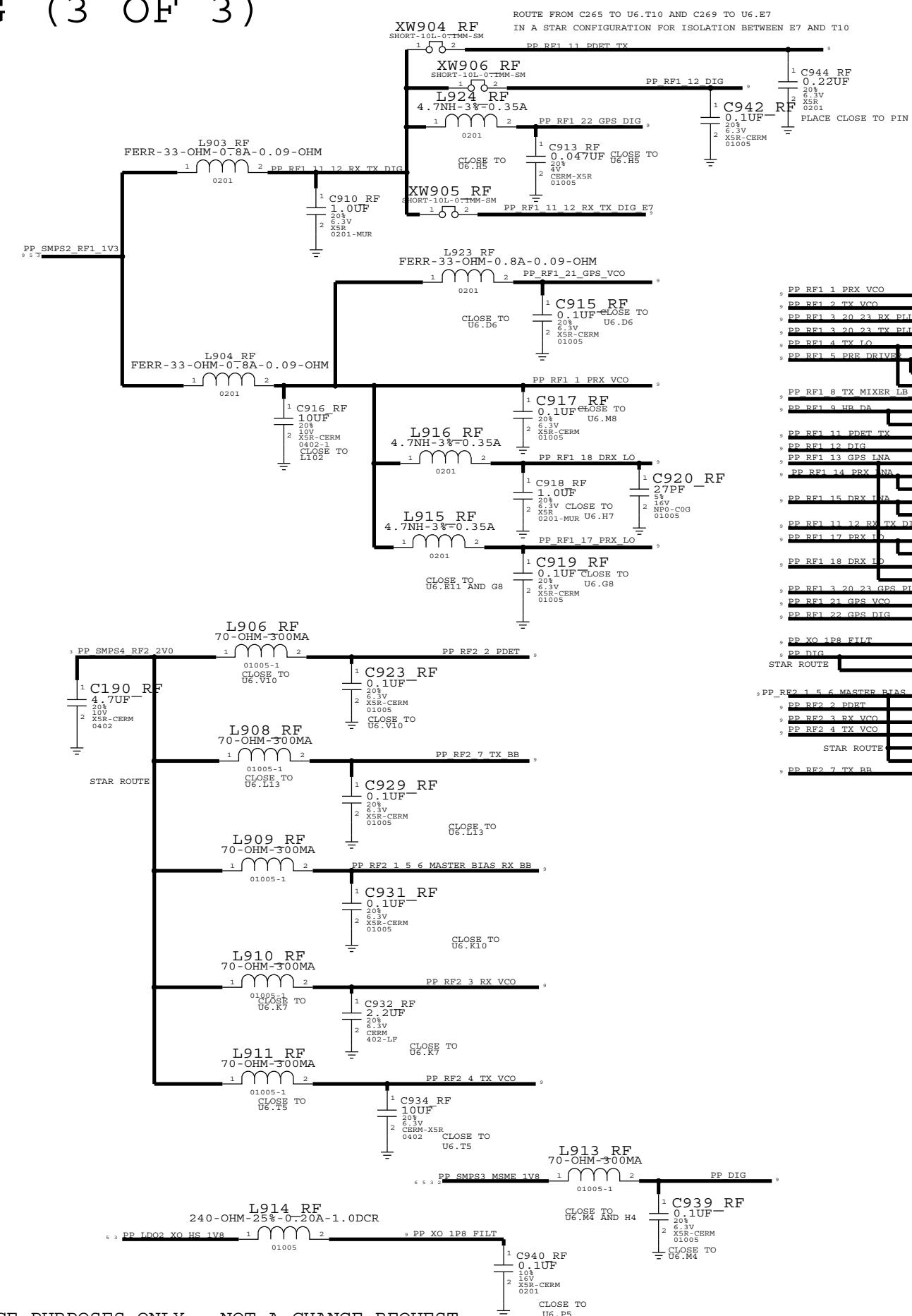
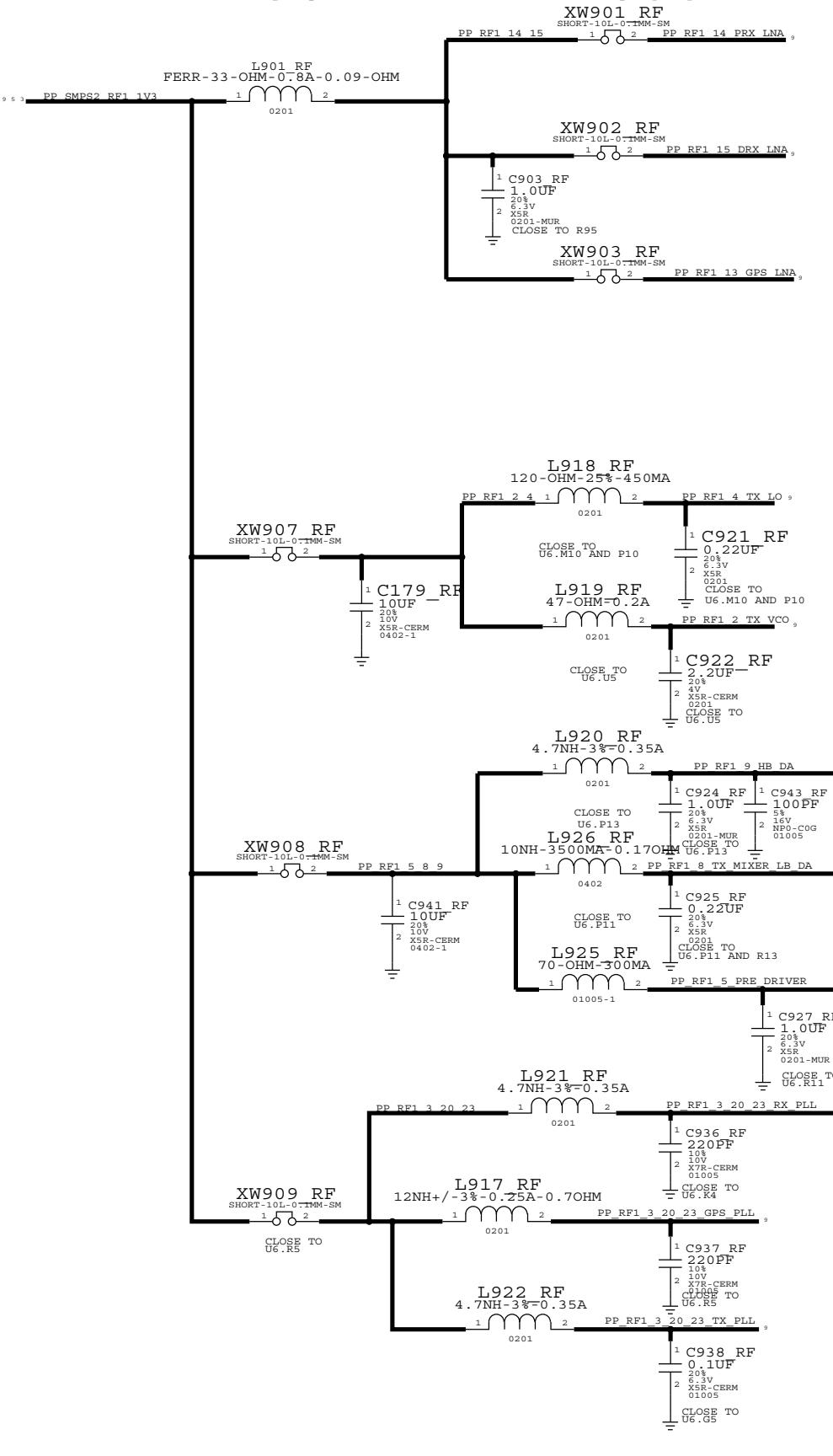
SWAPPED BAND5 AND BAND8 INPUTS FROM DEVO



R RXXX  
C C806  
L L803  
U U801

PAGE NUMBER	RF TRANSCEIVER (2 OF 3)	DRAWING NUMBER	051-9113	SIZE	D
Apple Inc.	REVISION	11.0.0	BRANCH		
NOTICE OF PROPRIETARY PROPERTY: THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED			PAGE	8 OF 19	
			SHEET	32 OF 51	

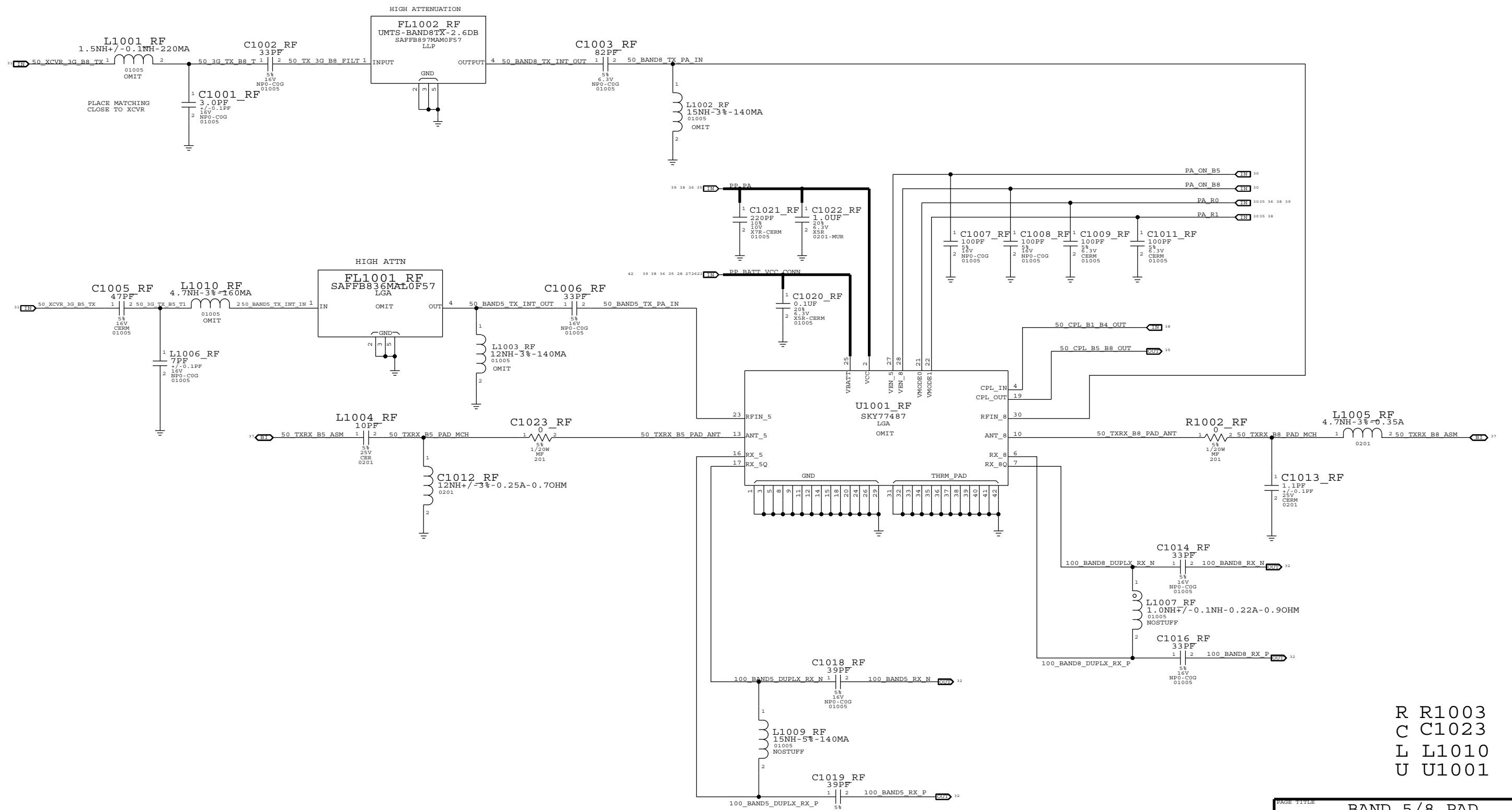
## RF TRANSCEIVER DECOUPLING (3 OF 3)



CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.

# BAND 5/8 PAD

CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.



R R1003  
C C1023  
L L1010  
U U1001

PAGE TITLE		BAND 5/8 PAD	
		DRAWING NUMBER	SIZE
		051-9113	D
REVISION		11.0.0	
BRANCH			
PAGE		10 OF 19	
SHEET		34 OF 51	
NOTICE OF PROPRIETARY PROPERTY:			
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC.			
THE POSSESSOR AGREES TO THE FOLLOWING:			
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE			
II NOT TO REPRODUCE OR COPY IT			
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART			
IV ALL RIGHTS RESERVED			

# B13/17 INTERSTAGE, PA, AND DUPLEXER

CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.

D

D

C

C

B

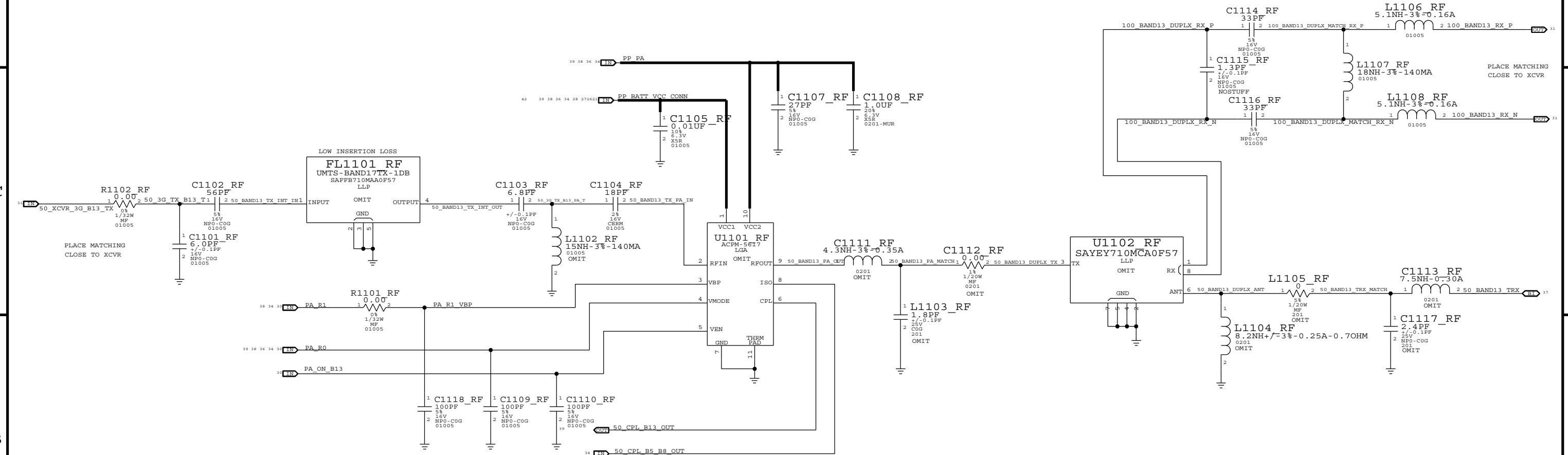
B

A

A

## PA POWER MODES

MODE	PA_R0	PA_R1
LOW	HIGH	HIGH
MEDIUM	LOW	HIGH
HIGH	LOW	LOW

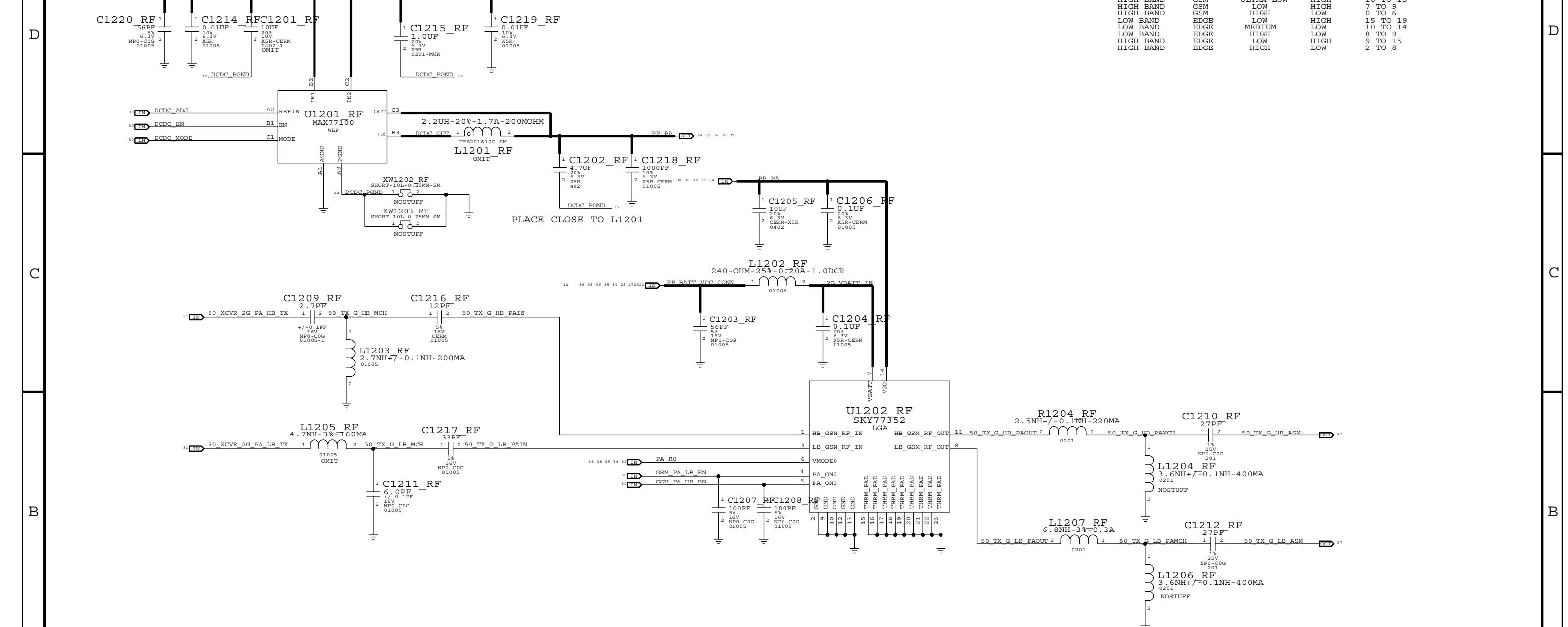


FLFL1101  
 R R1102  
 C C1118  
 L L1108  
 U U1102

PAGE TITLE		BAND 13 PA	
Apple Inc.		DRAWING NUMBER	051-9113 D
		REVISION	11.0.0
		BRANCH	
		PAGE	11 OF 19
		SHEET	35 OF 51
NOTICE OF PROPRIETARY PROPERTY:			
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC.			
THE POSSESSOR AGREES TO THE FOLLOWING:			
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE			
II NOT TO REPRODUCE OR COPY IT			
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART			
IV ALL RIGHTS RESERVED			

# 2G PA, PA DC/DC CONVERTER

CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.



## 2G PA GAIN MODES

BAND	MODE	GAIN MODE	PA_R1	PCL RANGE
LOW BAND	GSM	ULTRA LOW	HIGH	16 TO 19
LOW BAND	GSM	LOW	HIGH	14 TO 15
LOW BAND	GSM	MEDIUM	LOW	7 TO 13
LOW BAND	GSM	HIGH	LOW	5 TO 6
HIGH BAND	GSM	ULTRA LOW	HIGH	10 TO 15
HIGH BAND	GSM	LOW	HIGH	7 TO 9
LOW BAND	EDGE	LOW	HIGH	15 TO 19
LOW BAND	EDGE	MEDIUM	LOW	10 TO 14
LOW BAND	EDGE	HIGH	LOW	8 TO 9
HIGH BAND	EDGE	LOW	HIGH	9 TO 15
HIGH BAND	EDGE	HIGH	LOW	2 TO 8

PAGE TITLE	
2G PA, DCDC CONVERTER	
DRAWING NUMBER	051-9113
SHEET	D
REVISION	11.0.0
BRANCH	
PAGE	12 OF 19
SHEET	36 OF 51

# ASM, DCS RX

CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.

D

D

C

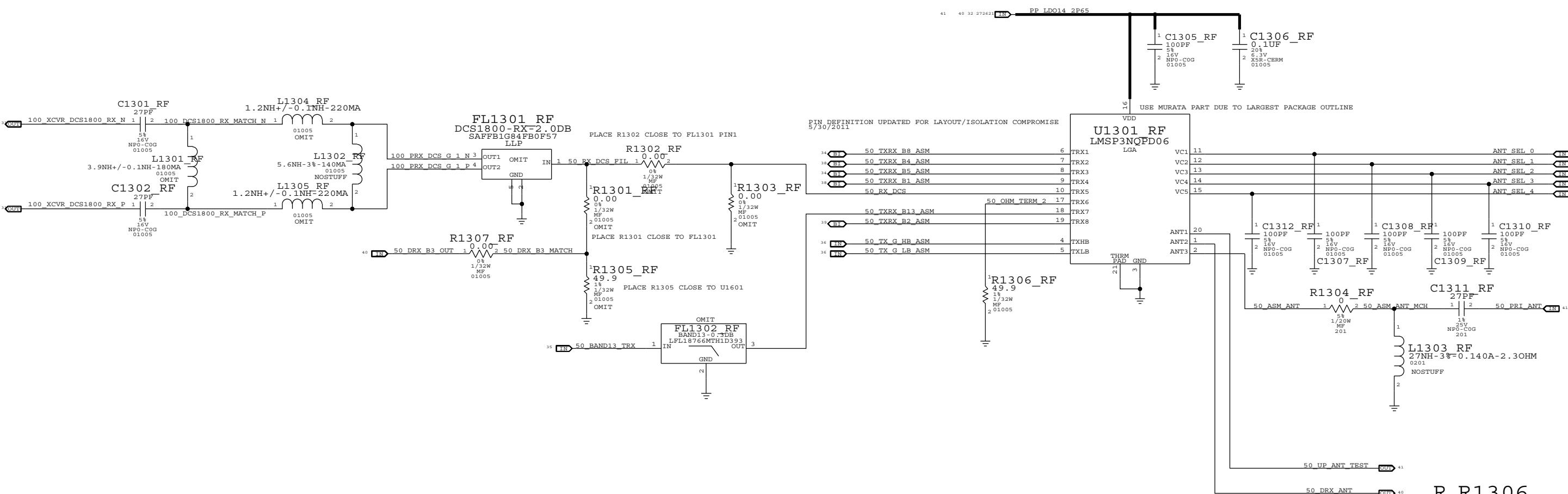
C

B

B

A

A



R R1306  
C C1312  
L 1305  
U U1301  
FL FL1302

PAGE TITLE		DRAWING NUMBER	SHEET
DCS RX, ASM		051-9113	D
Apple Inc.		REVISION	11.0.0
NOTICE OF PROPRIETARY PROPERTY:		BRANCH	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC.		PAGE	13 OF 19
THE POSSESSOR AGREES TO THE FOLLOWING:		SHEET	37 OF 51
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE			
II NOT TO REPRODUCE OR COPY IT			
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART			
IV ALL RIGHTS RESERVED			

# BAND 1/4 PAD

CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.

D

D

C

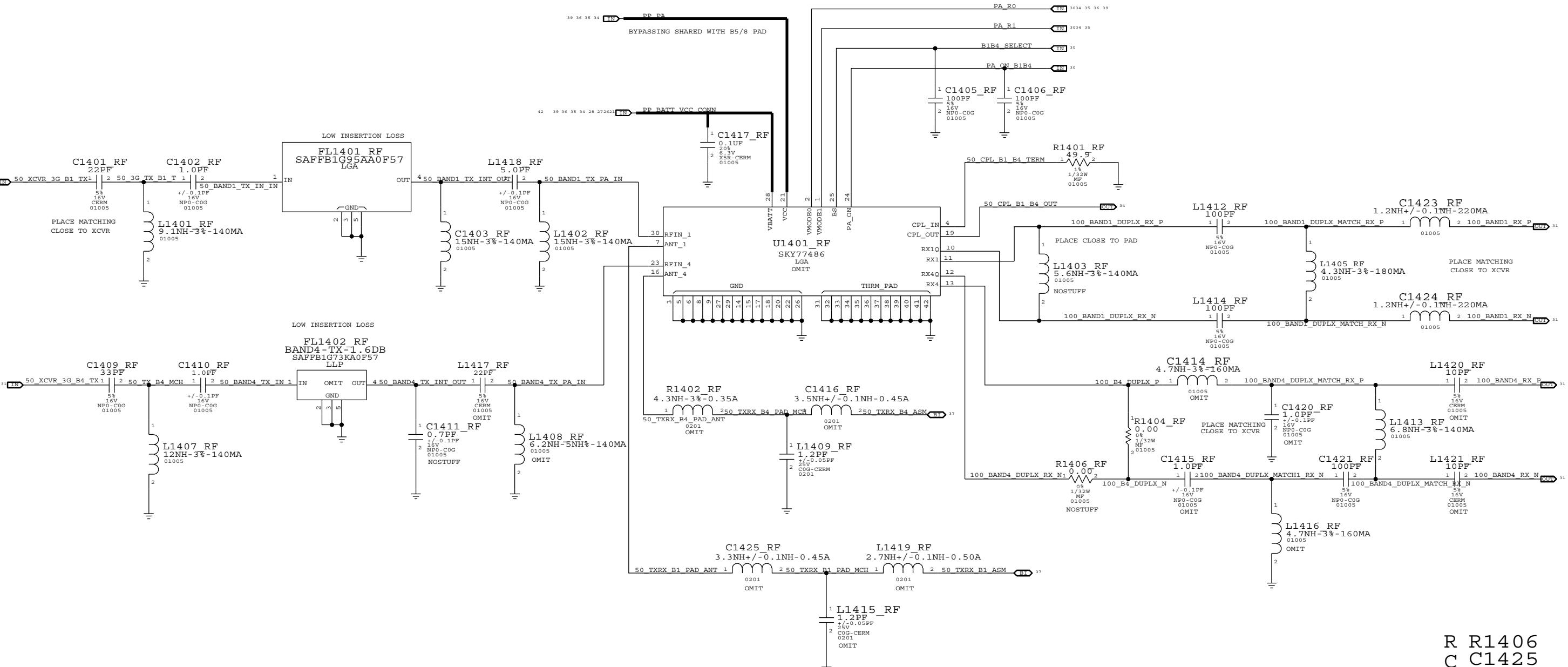
C

B

B

A

A



R R1406

C C1425

L L1422

U U1401

FL FL1101

PAGE TITLE		DRAWING NUMBER	
BAND 1/4 PAD		051-9113 D	
		REVISION	11.0.0
NOTICE OF PROPRIETARY PROPERTY:			
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC. THE POSSESSOR AGREES TO THE FOLLOWING: I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE II NOT TO REPRODUCE OR COPY IT III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART IV ALL RIGHTS RESERVED			
SHEET			
14 OF 19			
38 OF 51			

# BAND2 PAD

CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.

D

D

C

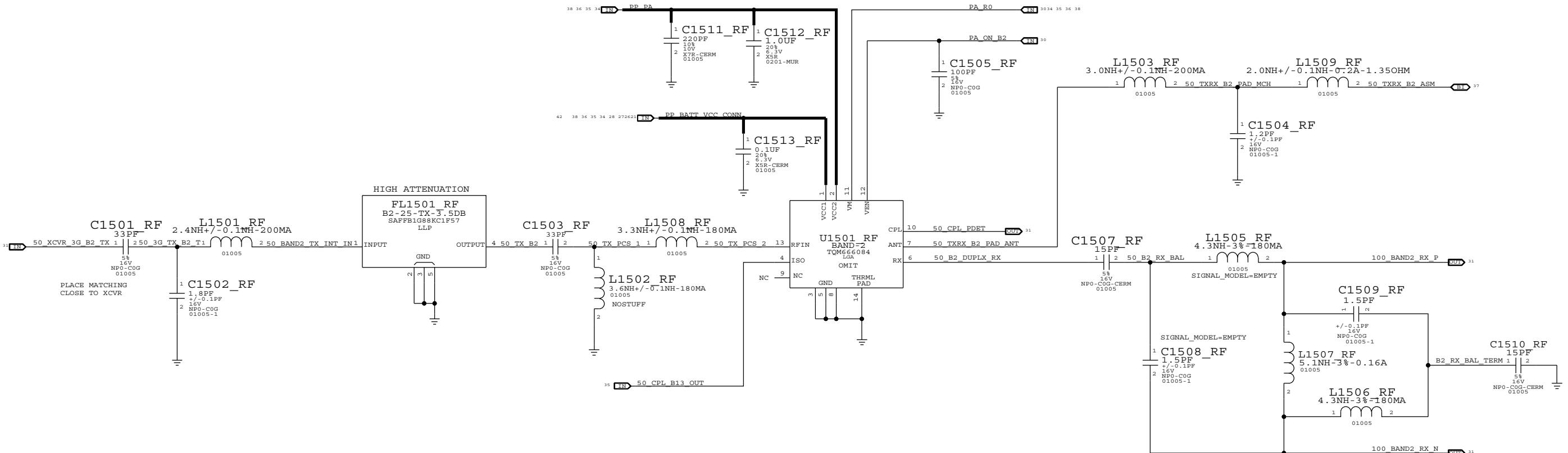
C

B

B

A

A



R R1501  
C C1513  
L L1509  
U U1501  
FL FL1501

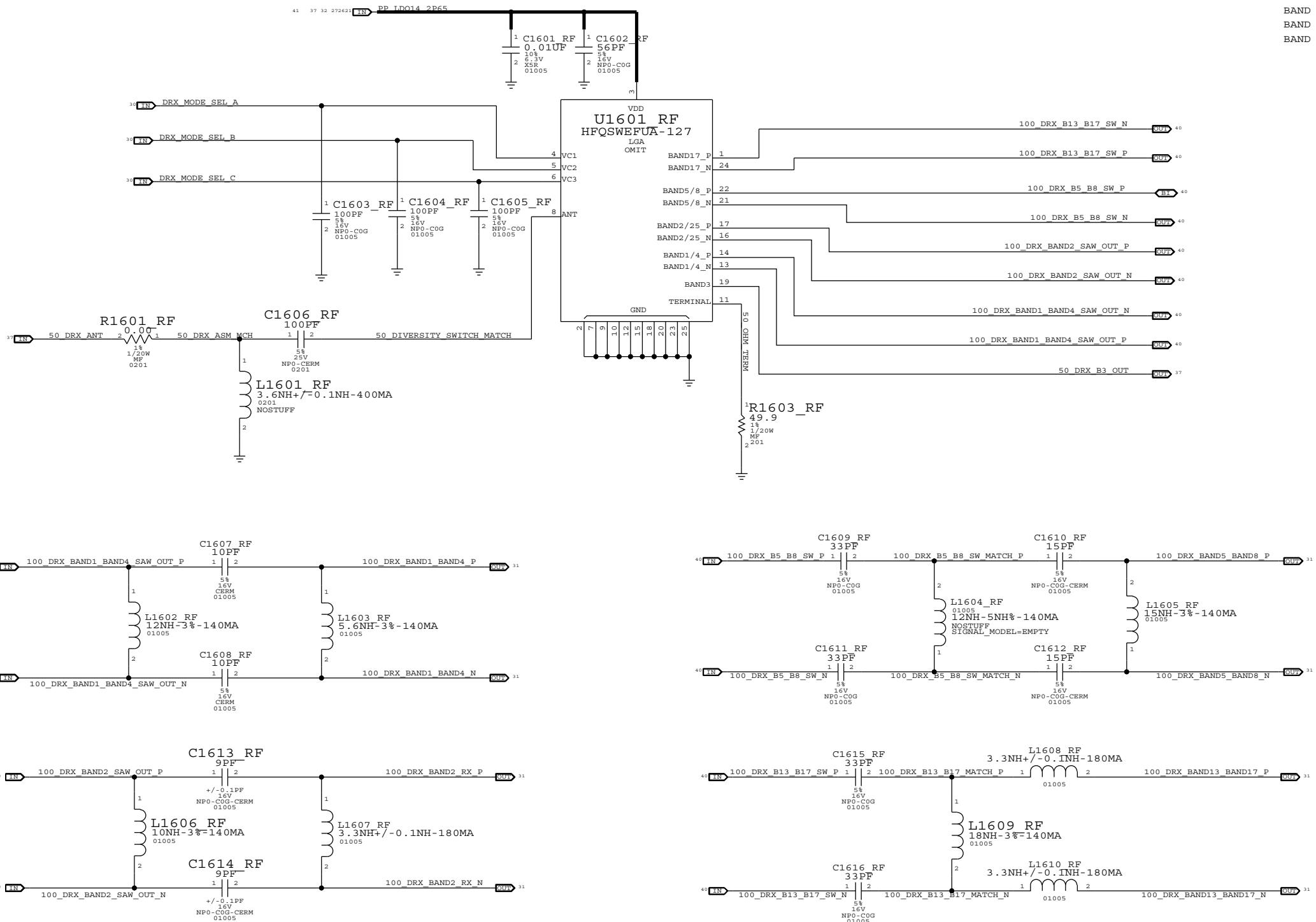
PAGE TITLE	DRAWING NUMBER	SIZE
BAND2 PAD	051-9113	D
Apple Inc.	REVISION	11.0.0
NOTICE OF PROPRIETARY PROPERTY:	BRANCH	
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE INC.	PAGE	15 OF 19
THE POSSESSOR AGREES TO THE FOLLOWING:	SHEET	39 OF 51
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE		
II NOT TO REPRODUCE OR COPY IT		
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART		
IV ALL RIGHTS RESERVED		

# RX DIVERSITY

CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.

## DIVERSITY MODULE LOGIC

BAND	VC1	VC2	VC3
BAND 1/4			
BAND 2			
BAND 5			
BAND 8			
BAND 13/17			

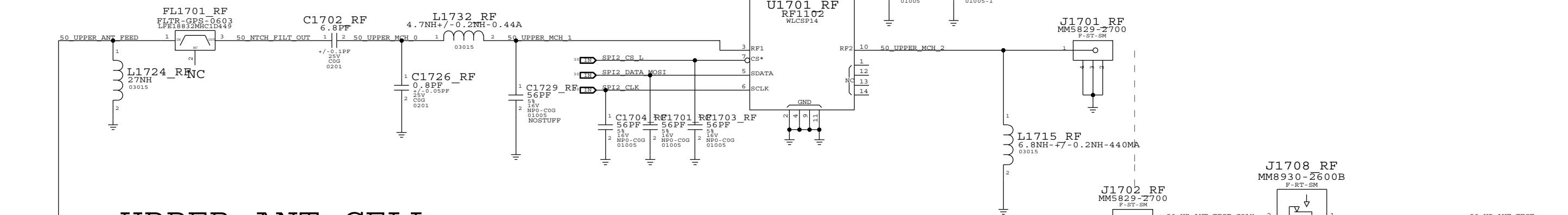
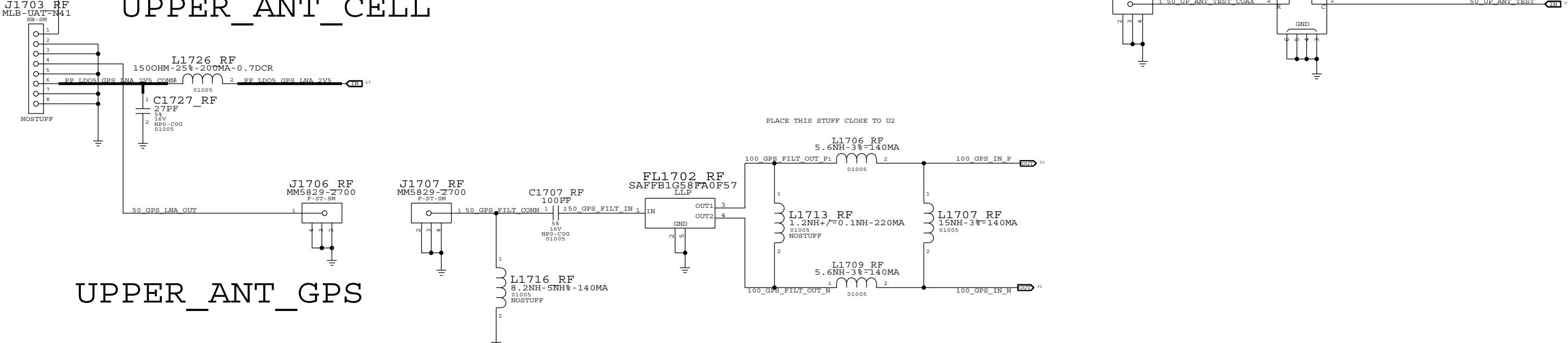
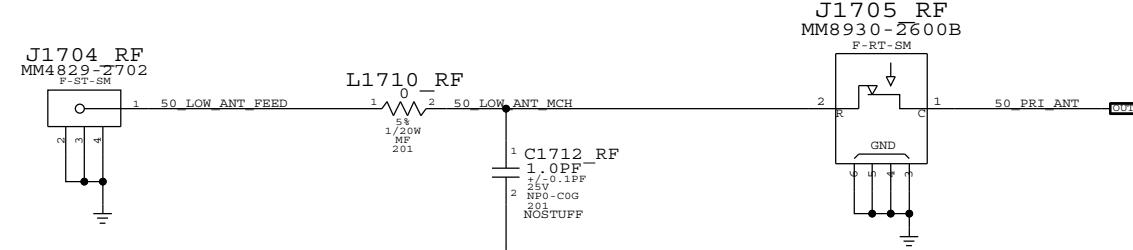


R.R1603  
C C1616  
L L1610  
U U1601

PAGE TITLE	RX DIVERSITY	
Apple Inc.	DRAWING NUMBER	051-9113
	SIZE	D
REVISION	11.0.0	
BRANCH		
PAGE	16 OF 19	
SHEET	40 OF 51	

NOTICE OF PROPRIETARY PROPERTY:  
THE INFORMATION CONTAINED HEREIN IS THE  
PROPRIETARY PROPERTY OF APPLE INC.  
THE POSSESSOR AGREES TO THE FOLLOWING:  
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE  
II NOT TO REPRODUCE OR COPY IT  
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART  
IV ALL RIGHTS RESERVED

8 7 6 5 4 3 2 1

**GPS****UPPER\_ANT\_CELL****UPPER\_ANT\_GPS****LOWER\_ANT**

CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.

R R1704  
C C1729  
L L1733  
U U1703

PAGE TITLE		
GPS		
DRAWING NUMBER	051-9113	SIZE
Apple Inc.		D
REVISION	11.0.0	
BRANCH		
PAGE	17 OF 19	
SHEET	41 OF 51	

NOTICE OF PROPRIETARY PROPERTY:  
THE INFORMATION CONTAINED HEREIN IS THE  
PROPRIETARY PROPERTY OF APPLE INC.  
THE POSSESSOR AGREES TO THE FOLLOWING:  
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE  
II NOT TO REPRODUCE OR COPY IT  
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART  
IV ALL RIGHTS RESERVED

8 7 6 5 4 3 2 1

# WLAN/BT

CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.

D

D

C

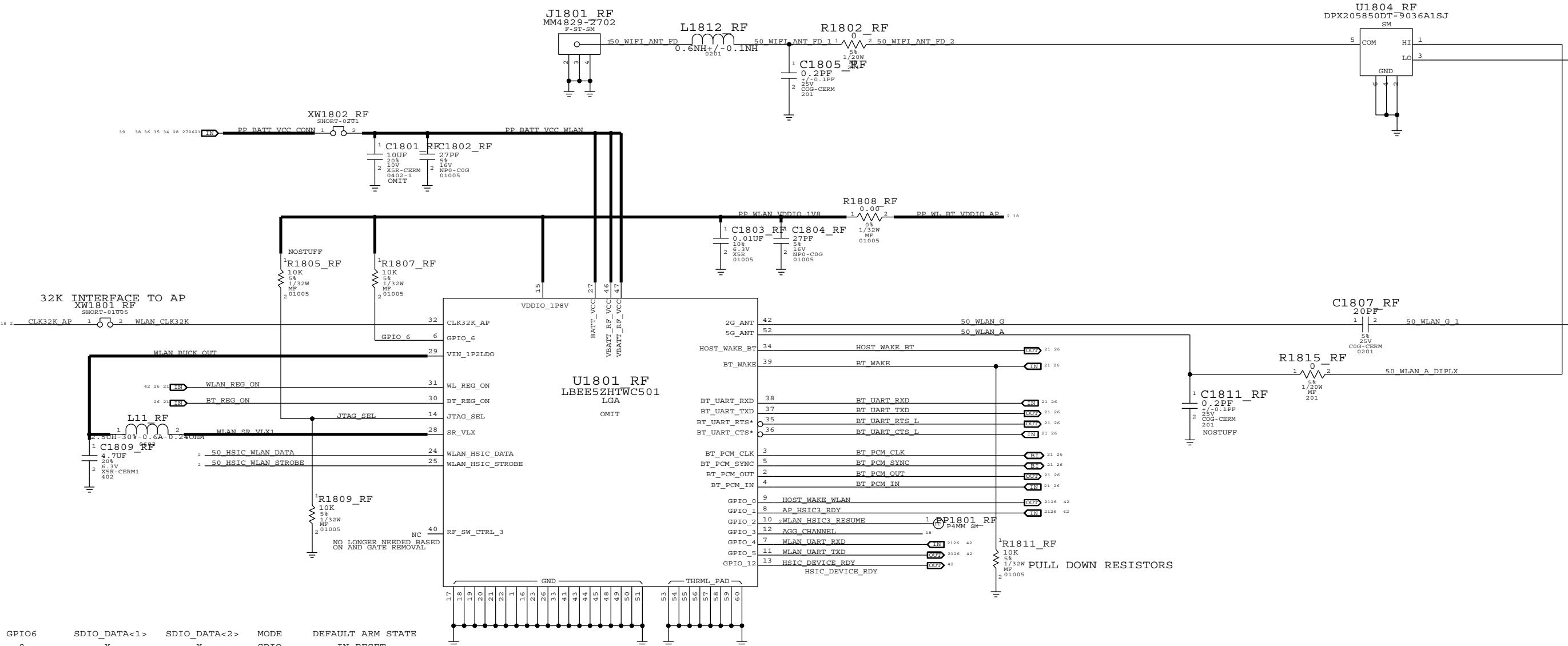
C

B

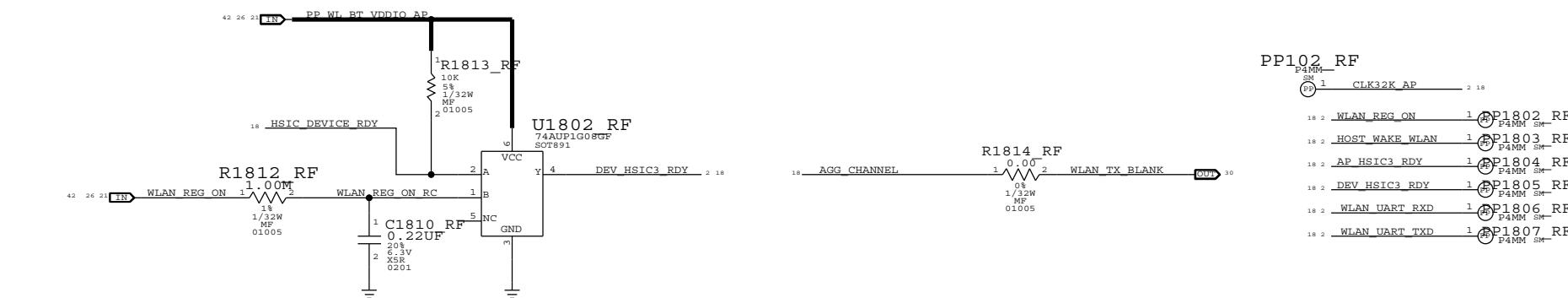
B

A

A



R R1815  
C C1811  
L L1812  
U U1802  
J J1802



PAGE TITLE	WIFI/BT	
Apple Inc.	DRAWING NUMBER	051-9113
REVISION	11.0.0	
BRANCH		
PAGE	18 OF 19	
SHEET	42 OF 51	

NOTICE OF PROPRIETARY PROPERTY:  
THE INFORMATION CONTAINED HEREIN IS THE  
PROPRIETARY PROPERTY OF APPLE INC.  
THE POSSESSOR AGREES TO THE FOLLOWING:  
I TO MAINTAIN THIS DOCUMENT IN CONFIDENCE  
II NOT TO REPRODUCE OR COPY IT  
III NOT TO REVEAL OR PUBLISH IT IN WHOLE OR PART  
IV ALL RIGHTS RESERVED

# RADIO BOM OPTIONS

CONFIDENTIAL AND PROPRIETARY APPLE SYSTEM DESIGN. FOR REFERENCE PURPOSES ONLY - NOT A CHANGE REQUEST.

## HW ID PA ID BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
118S0685	1	PA_ID RES DIVIDER	R304_RF	Y	B4_17
118S0656	1	PA_ID RES DIVIDER	R304_RF	Y	B3_13
118S0719	1	PA_ID RES DIVIDER	R302_RF	Y	B4_17
118S0685	1	PA_ID RES DIVIDER	R302_RF	Y	B3_13

## SPI NOR BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
335S0874	1	SERIAL SPI NOR - MICRONIX	U601_RF	Y	B4_17
335S0874	1	SERIAL SPI NOR - MICRONIX	U601_RF	Y	B3_13

## B5/B5E BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S3415	1	SKY77487 BAND 5/8 PAD	U1001_RF	Y	B4_17
353S3568	1	SKY77491 BANDSE/8 PAD	U1001_RF	Y	B3_13
155S0552	1	BAND5 TX SAW	FL1001_RF	Y	B4_17
155S0742	1	BAND5/BC10 TX SAW	FL1001_RF	Y	B3_13
152S1563	1	1.5NH, INDUCTOR - MURATA	L1001_RF	Y	B4_17
152S1662	1	1.5NH, INDUCTOR - TDK	L1001_RF	Y	B3_13
152S1577	1	15NH, INDUCTOR - MURATA	L1002_RF	Y	B4_17
152S1665	1	15NH, INDUCTOR - TDK	L1002_RF	Y	B3_13
152S1576	1	12NH, INDUCTOR - MURATA	L1003_RF	Y	B4_17
152S1664	1	12NH, INDUCTOR - TDK	L1003_RF	Y	B3_13
152S1570	1	4.7NH, INDUCTOR - MURATA	L1010_RF	Y	B4_17
152S1663	1	4.7NH, INDUCTOR - TDK	L1010_RF	Y	B3_13

## B13/17 BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1328	1	4.3NH INDUCTOR - 0201	C1111_RF	Y	B4_17
152S1353	1	3.6NH INDUCTOR - 0201	C1111_RF	Y	B3_13
131S0198	1	1.8PF CAPACITOR - 0201	L1103_RF	Y	B4_17
118S0724	1	0 OHM JUMPER - 0201	C1112_RF	Y	B4_17
131S0204	1	22PF CAPACITOR - 0201	C1112_RF	Y	B3_13
118S0724	1	0 OHM JUMPER - 0201	L1105_RF	Y	B4_17
152S1443	1	2.0NH INDUCTOR - 0201	L1105_RF	Y	B3_13
152S1320	1	7.5NH INDUCTOR - 0201	C1113_RF	Y	B4_17
131S0166	1	39PF CAPACITOR - 0201	C1113_RF	Y	B3_13
131S0176	1	2.4PF CAPACITOR - 0201	C1117_RF	Y	B4_17

## DCDC BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1648	1	POWER INDUCTOR - TAIYO YUDEN	L1201_RF	Y	B4_17
152S1648	1	POWER INDUCTOR - TAIYO YUDEN	L1201_RF	Y	B3_13
152S1570	1	4.7NH, INDUCTOR - MURATA	L1205_RF	Y	B4_17
152S1663	1	4.7NH, INDUCTOR - TDK	L1205_RF	Y	B3_13

## WIFI BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
339S0171	1	WIFI MODULE - MURATA	U1801_RF	Y	B4_17
339S0171	1	WIFI MODULE - MURATA	U1801_RF	Y	B3_13

## DIVERSITY MODULE BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
353S3516	1	B17 MURATA DIVERSITY MODULE	U1601_RF	Y	B4_17
353S3562	1	B13/BC10 DIVERSITY MODULE	U1601_RF	Y	B3_13

## B3/DCS1800 BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
155S0596	1	DCS1800 RX FIL	PL1301_RF	Y	B4_17
155S0729	1	BAND3 RX FIL	PL1301_RF	Y	B3_13
155S0695	1	THRU LINE	PL1302_RF	Y	B4_17
155S0722	1	BAND13 TX LPF	PL1302_RF	Y	B3_13
152S1656	1	3.0NH INDUCTOR	R1301_RF	Y	B3_13
117S0161	1	0OHM RES	R1302_RF	Y	B4_17
118S0652	1	49.90HM RES	R1303_RF	Y	B3_13
118S0652	1	49.90HM RES	R1305_RF	Y	B4_17
152S1562	1	1.2NH INDUCTOR	L1304_RF	Y	B4_17
152S1720	1	1.8NH INDUCTOR	L1304_RF	Y	B3_13
152S1562	1	1.2NH INDUCTOR	L1305_RF	Y	B4_17
152S1720	1	1.8NH INDUCTOR	L1305_RF	Y	B3_13
152S1569	1	3.9NH INDUCTOR	L1301_RF	Y	B4_17
152S1570	1	4.7NH INDUCTOR	L1301_RF	Y	B3_13

## B3/B4 RX BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
152S1570	1	4.7NH INDUCTOR - 01005	C1414_RF	Y	B4_17
131S0375	1	1.0PF CAPACITOR - 01005	C1415_RF	Y	B4_17
131S0375	1	1.0PF CAPACITOR - 01005	C1420_RF	Y	B4_17
152S1570	1	4.7NH INDUCTOR - 01005	L1416_RF	Y	B4_17
152S1571	1	5.6NH INDUCTOR - 01005	C1414_RF	Y	B3_13
131S0377	1	1.2PF CAPACITOR - 01005	C1415_RF	Y	B3_13
131S0377	1	1.2PF CAPACITOR - 01005	C1420_RF	Y	B3_13
152S1571	1	5.6NH INDUCTOR - 01005	L1416_RF	Y	B3_13
131S0219	1	10PF CAPACITOR - 01005	L1420_RF	Y	B4_17
131S0219	1	10PF CAPACITOR - 01005	L1421_RF	Y	B4_17
152S1562	1	1.2NH INDUCTOR - 01005	L1420_RF	Y	B3_13
152S1562	1	1.2NH INDUCTOR - 01005	L1421_RF	Y	B3_13
152S1328	1	4.3NH INDUCTOR - 0201	R1402_RF	Y	B4_17
152S1688	1	3.5NH INDUCTOR - 0201	C1416_RF	Y	B4_17
152S1284	1	3.3NH INDUCTOR - 0201	R1402_RF	Y	B3_13
152S1284	1	3.3NH INDUCTOR - 0201	C1416_RF	Y	B3_13

## B3/B4 TX BOM OPTIONS

PART#	QTY	DESCRIPTION	REFERENCE DESIGNATOR(S)	CRITICAL	BOM OPTION
</

D

D

C

C

B

B

A

A

Title: Basenet Report	Design: single_brd	Date: Apr 30 16:27:24 2012				
<b>Base nets and synonyms for single_brd.lib.SINGLE_BRD(@single_brd.lib.single_brd(sch_1))</b>						
Base Signal      Synonyms      Location([Zone][dir])						
45_CAMO_CLK	45_CAMO_CLK -	7C1 20D7	90_CAMO_MIPI_DATA3_C 90_CAMO_MIPI_DATA3_CONN_P -	20B4	@single_brd.lib.SINGLE_BRD	
45_CAMO_CLK_R	45_CAMO_CLK_R -	7C3	90_CAMO_MIPI_DATA3_N -	7C5 20B1	@single_brd.lib.SINGLE_BRD	
45_CAMI_CLK	45_CAMI_CLK -	7C1 11D8	90_CAMO_MIPI_DATA3_P -	7C5 20B1	@single_brd.lib.SINGLE_BRD	
45_CAMI_CLK_R	45_CAMI_CLK_R -	7C3	90_CAMO_MIPI_CLK_CONN_N -	11C4	@single_brd.lib.SINGLE_BRD	
45_DWI_AP_CLK	45_DWI_AP_CLK -	3D3 13A2 13B7	90_CAMO_MIPI_CLK_CONN_P -	11C4	@single_brd.lib.SINGLE_BRD	
45_DWI_AP_DO	45_DWI_AP_DO -	3D3 13A2 13B7	90_CAMO_MIPI_CLK_N -	7C3 11D2	@single_brd.lib.SINGLE_BRD	
45_FM10_DQS	45_FM10_DQS -	6B6 6B8 6C2	90_CAMO_MIPI_CLK_P -	7C3 11D2	@single_brd.lib.SINGLE_BRD	
45_FM10_RE_L	45_FM10_RE_L -	6B6 6B8 6C2	90_CAMO_MIPI_DATA0_C 90_CAMO_MIPI_DATA0_CONN_N -	11C4	@single_brd.lib.SINGLE_BRD	
45_FM11_DQS	45_FM11_DQS -	6B3 6B5	90_CAMO_MIPI_DATA0_P -	11C4	@single_brd.lib.SINGLE_BRD	
45_FM11_RE_L	45_FM11_RE_L -	6B3 6B5	90_CAMO_MIPI_DATA0_N -	7C3 11C2	@single_brd.lib.SINGLE_BRD	
45_I2S0_BCLK	45_I2S0_BCLK -	3D4 9C2	90_CAMO_MIPI_DATA0_P -	7C3 11C2	@single_brd.lib.SINGLE_BRD	
45_I2S0_MCK_R	45_I2S0_MCK_R -	3D5	90_CODEC_MIKEY_N -	10C3		
45_I2S0_MCLK	45_I2S0_MCLK -	3D5 9C2	90_CODEC_MIKEY_P -	10C3		
45_I2S1_BCLK	45_I2S1_BCLK -	3D4 21C4	90_E_CONN_PAIR1_N -	16C4 22C4		
45_I2S2_BCLK	45_I2S2_BCLK -	3D4 9C2 14C5	90_E_CONN_PAIR1_P -	16C4 22C4		
45_I2S2_MCK_R	45_I2S2_MCK_R -	3D5	90_E_CONN_PAIR2_N -	16C4 22C4		
45_I2S2_MCLK	45_I2S2_MCLK -	3D5 14C5	90_E_CONN_PAIR2_P -	16C4 22C4		
45_I2S3_BCLK	45_I2S3_BCLK -	3C4 21B4	90_E_PAIR1_N -	15B4 16B2		
BT_PCM_CLK	BT_PCM_CLK -	26B8 42B3	90_E_PAIR1_P -	15B4 16B2		
45_I2S4_BCLK	45_I2S4_BCLK -	3C4 9C2	90_E_PAIR1_N -	15B4 16B2		
45_I2S4_BCLK	45_I2S4_BCLK -	3C4 9C2	90_E_PAIR2_N -	15B4 16B2		
45_PROX_RX	45_PROX_RX -	11C8 17C8	90_LCM_MIPI_CLK_CONN_N -	18C5		
45_PROX_RX_CONN	45_PROX_RX_CONN -	11C5	90_LCM_MIPI_CLK_CONN_P -	18C5		
45_XTAL_24M_I	45_XTAL_24M_I -	2C4	90_LCM_MIPI_DATA0_CO 90_LCM_MIPI_DATA0_CONN_N -	18C5		
45_XTAL_24M_O	45_XTAL_24M_O -	2B4	90_LCM_MIPI_DATA0_CO 90_LCM_MIPI_DATA0_CONN_P -	18C5		
50_HSIC1_DATA	50_HSIC1_DATA -	2C6 21B4	90_LCM_MIPI_DATA0_N -	7C5 18C7		
50_HSIC1_STB	50_HSIC1_STB -	2C6 21B4	90_LCM_MIPI_CLK_P -	7C5 18C7		
50_HSIC1_BB_STROBE	50_HSIC1_BB_STROBE -	26B3 26C8 29B3	90_LCM_MIPI_DATA0_N -	7C5 18C7		
50_HSIC1_BB_STB	50_HSIC1_BB_STB -	2C6 21B4	90_LCM_MIPI_DATA0_P -	7C5 18C7		
50_HSIC1_BB_STB	50_HSIC1_BB_STB -	2B6 21B4	90_LCM_MIPI_DATA0_CO 90_LCM_MIPI_DATA0_CONN_N -	18C5		
50_HSIC1_BB_STB	50_HSIC1_BB_STB -	2B6 21B4	90_LCM_MIPI_DATA0_CO 90_LCM_MIPI_DATA0_CONN_P -	18C5		
50_HSIC1_BB_STB	50_HSIC1_BB_STB -	2B6 21B4	90_LCM_MIPI_DATA0_N -	7C5 18C7		
50_HSIC1_BB_STB	50_HSIC1_BB_STB -	2B6 21B4	90_LCM_MIPI_DATA0_P -	7C5 18C7		
50_HSIC1_BB_STB	50_HSIC1_BB_STB -	2B6 21B4	90_LCM_MIPI_DATA0_CO 90_LCM_MIPI_DATA0_CONN_N -	18C5		
50_HSIC1_BB_STB	50_HSIC1_BB_STB -	2B6 21B4	90_LCM_MIPI_DATA0_CO 90_LCM_MIPI_DATA0_CONN_P -	18C5		
50_HSIC1_BB_STB	50_HSIC1_BB_STB -	2B6 21B4	90_LCM_MIPI_DATA0_N -	7C5 18C7		
50_HSIC1_BB_STB	50_HSIC1_BB_STB -	2B6 21B4	90_LCM_MIPI_DATA0_P -	7C5 18C7		
90_BB_USB_N	90_BB_USB_N -	15B5 21C4	90_LCM_MIPI_DATA0_P -	7C5 18C7		
90_BB_USB_D_N	90_BB_USB_D_N -	26C3 26C8 29A5	90_LCM_MIPI_DATA0_N -	7C5 18C7		
90_BB_USB_P	90_BB_USB_P -	15C5 21C4	90_LCM_MIPI_TRISTAR_N -	10C1 15C8		
90_BB_USB_P	90_BB_USB_P -	26C3 26C8 29A5	90_LCM_MIPI_TRISTAR_P -	10C1 15C8		
90_CAMO_MIPI_CLK_CONN_N	90_CAMO_MIPI_CLK_CONN_N -	20C4	90_LCM_MIPI_TRISTAR_N -	10C1 15C8		
90_CAMO_MIPI_CLK_CONN_P	90_CAMO_MIPI_CLK_CONN_P -	20B4	90_LCM_MIPI_TRISTAR_P -	10C1 15C8		
90_CAMO_MIPI_CLK_N	90_CAMO_MIPI_CLK_N -	7C5 20C1	90_LCM_MIPI_TRISTAR_N -	10C1 15C8		
90_CAMO_MIPI_CLK_P	90_CAMO_MIPI_CLK_P -	7C5 20C1	90_LCM_MIPI_TRISTAR_P -	10C1 15C8		
90_CAMO_MIPI_DATA0_C	90_CAMO_MIPI_DATA0_C -	20C4	90_LCM_MIPI_TRISTAR_N -	10C1 15C8		
90_CAMO_MIPI_DATA0_N	90_CAMO_MIPI_DATA0_N -	7D5 20C1	90_LCM_MIPI_TRISTAR_P -	10C1 15C8		
90_CAMO_MIPI_DATA0_P	90_CAMO_MIPI_DATA0_P -	7D5 20C1	90_LCM_MIPI_TRISTAR_N -	10C1 15C8		
90_CAMO_MIPI_DATA1_C	90_CAMO_MIPI_DATA1_C -	20C4	90_LCM_MIPI_TRISTAR_P -	10C1 15C8		
90_CAMO_MIPI_DATA1_N	90_CAMO_MIPI_DATA1_N -	7D5 20C1	90_LCM_MIPI_TRISTAR_N -	10C1 15C8		
90_CAMO_MIPI_DATA1_P	90_CAMO_MIPI_DATA1_P -	7D5 20C1	90_LCM_MIPI_TRISTAR_P -	10C1 15C8		
90_CAMO_MIPI_DATA2_N	90_CAMO_MIPI_DATA2_N -	7C5 20B1	90_LCM_MIPI_TRISTAR_N -	10C1 15C8		
90_CAMO_MIPI_DATA2_P	90_CAMO_MIPI_DATA2_P -	7C5 20B1	90_LCM_MIPI_TRISTAR_P -	10C1 15C8		
90_CAMO_MIPI_DATA3_C	90_CAMO_MIPI_DATA3_C -	20B4	90_LCM_MIPI_TRISTAR_N -	10C1 15C8		
90_CAMO_MIPI_DATA3_N	90_CAMO_MIPI_DATA3_N -	20B4	90_LCM_MIPI_TRISTAR_P -	10C1 15C8		
90_CAMO_MIPI_DATA3_P	90_CAMO_MIPI_DATA3_P -	20B4	90_LCM_MIPI_TRISTAR_N -	10C1 15C8		
90_CAMO_MIPI_RUI6_RUM1_V8	90_CAMO_MIPI_RUI6_RUM1_V8 -		90_LCM_MIPI_TRISTAR_P -	10C1 15C8		
N_N	N_N		90_USBHS_N -	2B3 15B5		
N_P	N_P		90_USBHS_P -	2B3 15B5		
90_CAMO_MIPI_SOC_N	90_CAMO_MIPI_SOC_N -		90_USBHS_N -	2B3 15B5		
90_CAMO_MIPI_SOC_P	90_CAMO_MIPI_SOC_P -		90_USBHS_P -	2B3 15B5		
90_CAMO_MIPI_ACCEL_INT1	90_CAMO_MIPI_ACCEL_INT1 -		90_USBHS_N -	2B3 15B5		
90_CAMO_MIPI_ACCEL_INT1_FL	90_CAMO_MIPI_ACCEL_INT1_FL -		90_USBHS_P -	2B3 15B5		
90_CAMO_MIPI_ACT_DIO	90_CAMO_MIPI_ACT_DIO -		90_USBHS_N -	2B3 15B5		
ADC_LDO6_RUI6_V18	ADC_LDO6_RUI6_V18 -		90_USBHS_P -	2B3 15B5		
90_CAMO_MIPI_CLK_CONN_N	90_CAMO_MIPI_CLK_CONN_N -	20C4	90_USBHS_N -	2B3 15B5		
90_CAMO_MIPI_CLK_CONN_P	90_CAMO_MIPI_CLK_CONN_P -	20B4	90_USBHS_P -	2B3 15B5		
90_CAMO_MIPI_CLK_N	90_CAMO_MIPI_CLK_N -	7C5 20C1	90_USBHS_N -	2B3 15B5		
90_CAMO_MIPI_CLK_P	90_CAMO_MIPI_CLK_P -	7C5 20C1	90_USBHS_P -	2B3 15B5		
90_CAMO_MIPI_ACCEL_INT1	90_CAMO_MIPI_ACCEL_INT1 -		90_USBHS_N -	2B3 15B5		
90_CAMO_MIPI_ACCEL_INT1_FL	90_CAMO_MIPI_ACCEL_INT1_FL -		90_USBHS_P -	2B3 15B5		
90_CAMO_MIPI_ACT_DIO	90_CAMO_MIPI_ACT_DIO -		90_USBHS_N -	2B3 15B5		
BT_REG_ON_R	BT_REG_ON_R -		90_USBHS_P -	2B3 15B5		
BT_WAKE	BT_WAKE -		90_USBHS_N -	2B3 15B5		
BT_WAKE	BT_WAKE -		90_USBHS_P -	2B3 15B5		
ADC_LVS1	ADC_LVS1 -		90_USBHS_N -	2B3 15B5		
ADC_LVS1	ADC_LVS1 -		90_USBHS_P -	2B3 15B5		
ADC_LVS1_MSMC_1V05	ADC_LVS1_MSMC_1V05 -		90_USBHS_N -	2B3 15B5		
ADC_LVS1_MSMC_1V05	ADC_LVS1_MSMC_1V05 -		90_USBHS_P -	2B3 15B5		
90_CAMO_MIPI_DATA1_N	90_CAMO_MIPI_DATA1_N -	7C5 20B1	90_USBHS_N -	2B3 15B5		
90_CAMO_MIPI_DATA1_P	90_CAMO_MIPI_DATA1_P -	7C5 20B1	90_USBHS_P -	2B3 15B5		
90_CAMO_MIPI_DATA2_N	90_CAMO_MIPI_DATA2_N -	7C5 20B1	90_USBHS_N -	2B3 15B5		
90_CAMO_MIPI_DATA2_P	90_CAMO_MIPI_DATA2_P -	7C5 20B1	90_USBHS_P -	2B3 15B5		
90_CAMO_MIPI_DATA3_C	90_CAMO_MIPI_DATA3_C -	20B4	90_USBHS_N -	2B3 15B5		
90_CAMO_MIPI_DATA3_N	90_CAMO_MIPI_DATA3_N -	20				

D

D

C

C

B

B

A

A

CUMULUS_IN<4>	CUMULUS_IN<4> - @single_brd_lib.SINGLE_BRD	17C7 17D2	E_ACC2_CONN	E_ACC2_CONN - @single_brd_lib.SINGLE_BRD	16B4 22B4	HS4_REF_CONN	HS4_REF_CONN - @single_brd_lib.SINGLE_BRD	16C4 16D5	@single_brd.lib.SINGLE_BRD
CUMULUS_IN<5>	CUMULUS_IN<5> - @single_brd.lib.SINGLE_BRD	17C2 17C7	E_CONN_DETECT	E_CONN_DETECT - @single_brd.lib.SINGLE_BRD	16C4 22B5	I2C0_SCL_1V8	I2C0_SCL_1V8 - @single_brd.lib.SINGLE_BRD	3D2 13A4 13B6 14B1 14D6	INT_MIC3_RET - @single_brd.lib.SINGLE_BRD
CUMULUS_IN<6>	CUMULUS_IN<6> - @single_brd.lib.SINGLE_BRD	17C7 17D2	E_CONN_TP	E_CONN_TP - @single_brd.lib.SINGLE_BRD	22B4	I2C0_SDA_1V8	I2C0_SDA_1V8 - @single_brd.lib.SINGLE_BRD	3D2 13A4 13B6 14B1 14D6	IREF_IREF - @single_brd.lib.SINGLE_BRD
CUMULUS_IN<7>	CUMULUS_IN<7> - @single_brd.lib.SINGLE_BRD	17C2 17C7	E_DETECT	E_DETECT - @single_brd.lib.SINGLE_BRD	13C2 15B4 16B2	I2C1_SCL_1V8	I2C1_SCL_1V8 - @single_brd.lib.SINGLE_BRD	3D2 14A5	IRLED_KIRLED_K - @single_brd.lib.SINGLE_BRD
CUMULUS_IN<8>	CUMULUS_IN<8> - @single_brd.lib.SINGLE_BRD	17C2 17C7	FLASH_ENABLE	FLASH_ENABLE - @single_brd.lib.SINGLE_BRD	3B5 19C7	I2C1_SDA_1V8	I2C1_SDA_1V8 - @single_brd.lib.SINGLE_BRD	3D2 14A5	JTAG_SWCLKJTAG_SWCLK - @single_brd.lib.SINGLE_BRD
CUMULUS_IN<9>	CUMULUS_IN<9> - @single_brd.lib.SINGLE_BRD	17C2 17C7	FMIO_ALE	FMIO_ALE - @single_brd.lib.SINGLE_BRD	6B7 6C3	I2C2_SCL_1V8	I2C2_SCL_1V8 - @single_brd.lib.SINGLE_BRD	3D2 11B8	JTAG_SDIOJTAG_SDIO - @single_brd.lib.SINGLE_BRD
CUMULUS_IN<10>	CUMULUS_IN<10> - @single_brd.lib.SINGLE_BRD	17C7 17D2	FMIO_CEN0	FMIO_CEN0 - @single_brd.lib.SINGLE_BRD	6C3 6C8	I2C2_SDA_1V8	I2C2_SDA_1V8 - @single_brd.lib.SINGLE_BRD	3D2 11B8	KEEPACT_KEEPACT - @single_brd.lib.SINGLE_BRD
CUMULUS_IN<11>	CUMULUS_IN<11> - @single_brd.lib.SINGLE_BRD	17C2 17C7	FMIO_CLE	FMIO_CLE - @single_brd.lib.SINGLE_BRD	6B7 6C3	I2C_SCL_ALS	I2C_SCL_ALS - @single_brd.lib.SINGLE_BRD	11C5	L19_FILT_L19_FILT - @single_brd.lib.SINGLE_BRD
CUMULUS_IN<12>	CUMULUS_IN<12> - @single_brd.lib.SINGLE_BRD	17C2 17C7	FMIO_DQVREF	FMIO_DQVREF - @single_brd.lib.SINGLE_BRD	6B3 6B6 6B6 6B7 6B7 6C5	I2C_SCL_COMP	I2C_SCL_COMP - @single_brd.lib.SINGLE_BRD	14A6 14A7 14B6	L19_IREF_L19_IREF - @single_brd.lib.SINGLE_BRD
CUMULUS_VDDANA	CUMULUS_VDDANA - @single_brd.lib.SINGLE_BRD	17D7	FMIO_IO<3>	FMIO_IO<3> - @single_brd.lib.SINGLE_BRD	6C4 6C8	I2C_SDA_ALS	I2C_SDA_ALS - @single_brd.lib.SINGLE_BRD	11C5	L19_LDO_FILT_L19_LDO_FILT - @single_brd.lib.SINGLE_BRD
CUMULUS_VDDCORE	CUMULUS_VDDCORE - @single_brd.lib.SINGLE_BRD	17D7	FMIO_IO<4>	FMIO_IO<4> - @single_brd.lib.SINGLE_BRD	6C4 6C8	I2C_SDA_COMP	I2C_SDA_COMP - @single_brd.lib.SINGLE_BRD	14A6 14A7 14B6	L19_SES_N_L19_SES_N - @single_brd.lib.SINGLE_BRD
CUMULUS_VSTM_OUT<0>	CUMULUS_VSTM_OUT<0> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FMIO_IO<5>	FMIO_IO<5> - @single_brd.lib.SINGLE_BRD	6C4 6C8	I2S0_DIN	I2S0_DIN - @single_brd.lib.SINGLE_BRD	3D4 9C2	L19_SES_P_L19_SES_P - @single_brd.lib.SINGLE_BRD
CUMULUS_VSTM_OUT<1>	CUMULUS_VSTM_OUT<1> - @single_brd.lib.SINGLE_BRD	17B3 17C5	FMIO_IO<6>	FMIO_IO<6> - @single_brd.lib.SINGLE_BRD	6C4 6C8	BB_I2S_TxD	BB_I2S_TxD - @single_brd.lib.RADIO_MLB(i594_page 19)	26C8 30B4	L19_SWITCH_L19_SWITCH - @single_brd.lib.SINGLE_BRD
CUMULUS_VSTM_OUT<2>	CUMULUS_VSTM_OUT<2> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FMIO_IO<7>	FMIO_IO<7> - @single_brd.lib.SINGLE_BRD	6C4 6C8	I2S1_DOUT	I2S1_DOUT - @single_brd.lib.SINGLE_BRD	3D4 9C2	L19_VSENSE_N_L19_VSENSE_N - @single_brd.lib.SINGLE_BRD
CUMULUS_VSTM_OUT<3>	CUMULUS_VSTM_OUT<3> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FMIO_WE_L	FMIO_WE_L - @single_brd.lib.SINGLE_BRD	6B7 6C3	I2S0_LRCLK	I2S0_LRCLK - @single_brd.lib.SINGLE_BRD	3D4 9C2	L19_VSENSE_P_L19_VSENSE_P - @single_brd.lib.SINGLE_BRD
CUMULUS_VSTM_OUT<4>	CUMULUS_VSTM_OUT<4> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FMII_ALE	FMII_ALE - @single_brd.lib.SINGLE_BRD	6B6 6C3	I2S1_DIN	I2S1_DIN - @single_brd.lib.SINGLE_BRD	3D4 21C4	L65_FILT+L65_FILT+ - @single_brd.lib.SINGLE_BRD
CUMULUS_VSTM_OUT<5>	CUMULUS_VSTM_OUT<5> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FMII_CEN0	FMII_CEN0 - @single_brd.lib.SINGLE_BRD	6C3 6C6	I2S1_LRCLK	I2S1_LRCLK - @single_brd.lib.SINGLE_BRD	3D4 21C4	L65_VCPFIILT+L65_VCPFIILT+ - @single_brd.lib.SINGLE_BRD
CUMULUS_VSTM_OUT<6>	CUMULUS_VSTM_OUT<6> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FMII_CLE	FMII_CLE - @single_brd.lib.SINGLE_BRD	6B6 6C3	I2S2_DIN	I2S2_DIN - @single_brd.lib.RADIO_MLB(i594_page 19)	3D4 9B2 14C5	LCD_BL_CA_LCD_BL_CA - @single_brd.lib.SINGLE_BRD
CUMULUS_VSTM_OUT<7>	CUMULUS_VSTM_OUT<7> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FMII_IO<0>	FMII_IO<0> - @single_brd.lib.SINGLE_BRD	6C5	I2S2_DOUT	I2S2_DOUT - @single_brd.lib.SINGLE_BRD	3D4 9C2 14C5	LCD_BL_CA_CONN_LCD_BL_CA_CONN - @single_brd.lib.SINGLE_BRD
CUMULUS_VSTM_OUT<8>	CUMULUS_VSTM_OUT<8> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FMII_IO<1>	FMII_IO<1> - @single_brd.lib.SINGLE_BRD	6C5	I2S2_LRCLK	I2S2_LRCLK - @single_brd.lib.SINGLE_BRD	3D4 9C2 14C5	LCD_BL_CCI1_LCD_BL_CCI1 - @single_brd.lib.SINGLE_BRD
CUMULUS_VSTM_OUT<9>	CUMULUS_VSTM_OUT<9> - @single_brd.lib.SINGLE_BRD	17C5	FMII_IO<2>	FMII_IO<2> - @single_brd.lib.SINGLE_BRD	6C5	I2S3_DIN	I2S3_DIN - @single_brd.lib.SINGLE_BRD	3C4 21B4	LCD_BL_CCI1_CONN_LCD_BL_CCI1_CONN - @single_brd.lib.SINGLE_BRD
CUMULUS_VSTM_OUT<10>	CUMULUS_VSTM_OUT<10> - @single_brd.lib.SINGLE_BRD	17C5	FMII_IO<3>	FMII_IO<3> - @single_brd.lib.SINGLE_BRD	6C5	I2S3_LRCLK	I2S3_LRCLK - @single_brd.lib.SINGLE_BRD	3C4 21B4	LCD_BL_CCC1_LCD_BL_CCC1 - @single_brd.lib.SINGLE_BRD
CUMULUS_VSTM_OUT<11>	CUMULUS_VSTM_OUT<11> - @single_brd.lib.SINGLE_BRD	17B3 17C5	FMII_IO<4>	FMII_IO<4> - @single_brd.lib.SINGLE_BRD	6C5	I2S3_LRCLK	I2S3_LRCLK - @single_brd.lib.SINGLE_BRD	3C4 21B4	LCD_BL_CCC2_LCD_BL_CCC2 - @single_brd.lib.SINGLE_BRD
CUMULUS_VSTM_OUT<12>	CUMULUS_VSTM_OUT<12> - @single_brd.lib.SINGLE_BRD	17B3 17C5	FMII_IO<5>	FMII_IO<5> - @single_brd.lib.SINGLE_BRD	6C5	I2S3_LRCLK	I2S3_LRCLK - @single_brd.lib.RADIO_MLB(i594_page 19)	3C4 21B4	LCD_BL_CCC2_CONN_LCD_BL_CCC2_CONN - @single_brd.lib.SINGLE_BRD
CUMULUS_VSTM_OUT<13>	CUMULUS_VSTM_OUT<13> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FMII_IO<6>	FMII_IO<6> - @single_brd.lib.SINGLE_BRD	6C5	I2S3_DOUT	I2S3_DOUT - @single_brd.lib.SINGLE_BRD	3C4 21B4	LCD_DESENSE_LCD_DESENSE - @single_brd.lib.SINGLE_BRD
CUMULUS_VSTM_OUT<14>	CUMULUS_VSTM_OUT<14> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FMII_IO<7>	FMII_IO<7> - @single_brd.lib.SINGLE_BRD	6C5	I2S4_DIN	I2S4_DIN - @single_brd.lib.RADIO_MLB(i594_page 19)	3C4 9C2	LCD_DESENSE_CONN_LCD_DESENSE_CONN - @single_brd.lib.SINGLE_BRD
CUMULUS_VSTM_OUT<15>	CUMULUS_VSTM_OUT<15> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FMII_LRCLK	FMII_LRCLK - @single_brd.lib.SINGLE_BRD	3A7 22B8	I2S4_DOUT	I2S4_DOUT - @single_brd.lib.SINGLE_BRD	3C4 9C2	LCD_HIFA_SYNC_LCD_HIFA_SYNC - @single_brd.lib.SINGLE_BRD
CUMULUS_VSTM_OUT<16>	CUMULUS_VSTM_OUT<16> - @single_brd.lib.SINGLE_BRD	17C3 17C5	FORCE_DFU	FORCE_DFU - @single_brd.lib.SINGLE_BRD	3A7 22B8	I2S4_LRCLK	I2S4_LRCLK - @single_brd.lib.SINGLE_BRD	3C4 9C2	LCD_HIFA_SYNC_BUFF_LCD_HIFA_SYNC_BUFF - @single_brd.lib.SINGLE_BRD
CUMULUS_VSTM_OUT<17>	CUMULUS_VSTM_OUT<17> - @single_brd.lib.SINGLE_BRD	17B5 17C3	GCM_SEL	GCM_SEL - @single_brd.lib.SINGLE_BRD	17B2 17B5	I2S4_LRCLK	I2S4_LRCLK - @single_brd.lib.RADIO_MLB(i594_page 19)	3C4 9C2	LCD_HIFA_SYNC_CONN_LCD_HIFA_SYNC_CONN - @single_brd.lib.SINGLE_BRD
CUMULUS_VSTM_OUT<18>	CUMULUS_VSTM_OUT<18> - @single_brd.lib.SINGLE_BRD	17B5 17C3	GRAPE_INT_L	GRAPE_INT_L - @single_brd.lib.SINGLE_BRD	3B7 17B8	I2S4_DIN	I2S4_DIN - @single_brd.lib.SINGLE_BRD	3C4 9C2	LCD_PANIC_L_CONN_LCD_PANIC_L_CONN - @single_brd.lib.SINGLE_BRD
CUMULUS_VSTM_OUT<19>	CUMULUS_VSTM_OUT<19> - @single_brd.lib.SINGLE_BRD	17B5 17C3	GRAPE_RESET_L	GRAPE_RESET_L - @single_brd.lib.SINGLE_BRD	3A7 17B7	I2S4_DOUT	I2S4_DOUT - @single_brd.lib.SINGLE_BRD	3C4 9C2	LCD_PIFALCD_PIFAL - @single_brd.lib.SINGLE_BRD
DDR0_VREF_CA	DDR0_VREF_CA - @single_brd.lib.SINGLE_BRD	4A7 4D6	GYRO_INT1	GYRO_INT1 - @single_brd.lib.SINGLE_BRD	3A7 14B3	I2S4_LRCLK	I2S4_LRCLK - @single_brd.lib.SINGLE_BRD	3C4 9C2	LCD_PIFARLCD_PIFAR - @single_brd.lib.SINGLE_BRD
DDR0_VREF_DQ	DDR0_VREF_DQ - @single_brd.lib.SINGLE_BRD	4A5 4D6	GYRO_INT2	GYRO_INT2 - @single_brd.lib.SINGLE_BRD	3B5 14B3	ID_N42	ID_N42 - @single_brd.lib.SINGLE_BRD	3C4 3C8	LCD_PWR_EN_LCD_PWR_EN - @single_brd.lib.SINGLE_BRD
DDR0_ZQ	DDR0_ZQ - @single_brd.lib.SINGLE_BRD	4D6 4D6	GYRO_PUMP	GYRO_PUMP - @single_brd.lib.SINGLE_BRD	14B2	INT_MIC1_BIAS	INT_MIC1_BIAS - @single_brd.lib.SINGLE_BRD	9C6 16C2	LCD_PWR_EN_CONN_LCD_PWR_EN_CONN - @single_brd.lib.SINGLE_BRD
DDR1_VREF_CA	DDR1_VREF_CA - @single_brd.lib.SINGLE_BRD	4A6 4D6	HIFA_BUFF_INV	HIFA_BUFF_INV - @single_brd.lib.SINGLE_BRD	17A2	INT_MIC1_BIAS_FILT	INT_MIC1_BIAS_FILT - @single_brd.lib.SINGLE_BRD	9C6	LCD_RESET_LLCD_RESET_L - @single_brd.lib.SINGLE_BRD
DDR1_VREF_DQ	DDR1_VREF_DQ - @single_brd.lib.SINGLE_BRD	4A4 4D6	HOLD_KEY_BUFF_L	HOLD_KEY_BUFF_L - @single_brd.lib.SINGLE_BRD	3A3 3B7 13C4 13C6	INT_MIC1_CODEC_N	INT_MIC1_CODEC_N - @single_brd.lib.SINGLE_BRD	9C6	LCD_RESET_LCONN_LLCD_RESET_LCONN - @single_brd.lib.SINGLE_BRD
DDR1_ZQ	DDR1_ZQ - @single_brd.lib.SINGLE_BRD	4D6 4D6	HOLD_KEY_CONN_L	HOLD_KEY_CONN_L - @single_brd.lib.SINGLE_BRD	8B5	INT_MIC1_CODEC_P	INT_MIC1_CODEC_P - @single_brd.lib.SINGLE_BRD	9C6	LCD_SWITCH_LCD_SWITCH - @single_brd.lib.SINGLE_BRD
DEV_HSIC3_RDY	DEV_HSIC3_RDY - @single_brd.lib.SINGLE_BRD	3B5 21D1	HOLD_KEY_L	HOLD_KEY_L - @single_brd.lib.SINGLE_BRD	3A4 8B7	INT_MIC1_CONN_BIAS	INT_MIC1_CONN_BIAS - @single_brd.lib.SINGLE_BRD	16C4 16C5	LCD_VBOOST_LCD_VBOOST - @single_brd.lib.SINGLE_BRD
DEV_HSIC3_RDY	DEV_HSIC3_RDY - @single_brd.lib.SINGLE_BRD	26B8 42A4 42A6	HOST_RESET	HOST_RESET - @single_brd.lib.SINGLE_BRD					

D

D

C

C

B

B

A

A

NEG_SWITCH	NEG_SWITCH - @single_brd_lib.SINGLE_BRD	19D3	PP2V8_CAM_AVDD	PP2V8_CAM_AVDD - @single_brd_lib.SINGLE_BRD	11C2 12B5 20B7	SAGE_PANEL_IN<14>	SAGE_PANEL_IN<14> - @single_brd_lib.SINGLE_BRD	17C3 18A6	UART1_RTS_L	UART1_RTS_L - @single_brd_lib.SINGLE_BRD	3B5 21C4
NTC_CAM_N	NTC_CAM_N	12A6	PP3V0_ACC	PP3V0_ACC - @single_brd_lib.SINGLE_BRD	12B4 15C4	SAGE_PANEL_VSTM_OUT<0>	SAGE_PANEL_VSTM_OUT<0> - @single_brd_lib.SINGLE_BRD	17C1 18A6 18A8	BB_UART_CTS_L	BB_UART_CTS_L - @single_brd_lib.RADIO_MLB(i594_page)	26C3 26C8 30C4
NTC_CAM_P	NTC_CAM_P	12A6 12B7	PP3V0_ALS	PP3V0_ALS - @single_brd_lib.SINGLE_BRD	11C5	SAGE_PANEL_VSTM_OUT<1>	SAGE_PANEL_VSTM_OUT<1> - @single_brd_lib.SINGLE_BRD	17B1 18A8	19)		
NTC_FOREHEAD_N	NTC_FOREHEAD_N	12A8	PP3V0_COMP	PP3V0_COMP - @single_brd_lib.SINGLE_BRD	14A6 14A8 14B8	SAGE_PANEL_VSTM_OUT<2>	SAGE_PANEL_VSTM_OUT<2> - @single_brd_lib.SINGLE_BRD	17C1 18A8	UART1_RXD	UART1_RXD - @single_brd_lib.SINGLE_BRD	3B5 15B5 21C4
NTC_FOREHEAD_P	NTC_FOREHEAD_P	12A7 12B7	PP3V0_IMU	PP3V0_IMU - @single_brd_lib.SINGLE_BRD	12B5 14A5 14B1	SAGE_PANEL_VSTM_OUT<3>	SAGE_PANEL_VSTM_OUT<3> - @single_brd_lib.SINGLE_BRD	17C1 18A8	BB_UART_TXD	BB_UART_TXD - @single_brd_lib.RADIO_MLB(i594_page)	26C3 26C8 30C4
NTC_HSP_N	NTC_HSP_N	12A5	PP3V0_IO	PP3V0_IO - @single_brd_lib.SINGLE_BRD	2D3 5B7 12B5	SAGE_PANEL_VSTM_OUT<4>	SAGE_PANEL_VSTM_OUT<4> - @single_brd_lib.SINGLE_BRD	17C1 18A8	UART1_TXD	UART1_TXD - @single_brd_lib.SINGLE_BRD	3B5 15B5 21C4
NTC_HSP_P	NTC_HSP_P	12A5 12B7	PP3V0_NAND	PP3V0_NAND - @single_brd_lib.SINGLE_BRD	6D1 12B5	SAGE_PANEL_VSTM_OUT<5>	SAGE_PANEL_VSTM_OUT<5> - @single_brd_lib.SINGLE_BRD	17C1 18A8	BB_UART_RXD	BB_UART_RXD - @single_brd_lib.RADIO_MLB(i594_page)	26C3 26C8 30C4
NTC_PA_N	NTC_PA_N	12A4	PP3V0_NAND_XW	PP3V0_NAND_XW - @single_brd_lib.SINGLE_BRD	6D3	SAGE_PANEL_VSTM_OUT<6>	SAGE_PANEL_VSTM_OUT<6> - @single_brd_lib.SINGLE_BRD	17C1 18A8	UART2_RXD	UART2_RXD - @single_brd_lib.SINGLE_BRD	3B5 15B5
NTC_PA_P	NTC_PA_P	12A4 12B7	PP3V0_PROX	PP3V0_PROX - @single_brd_lib.SINGLE_BRD	11C5	SAGE_PANEL_VSTM_OUT<7>	SAGE_PANEL_VSTM_OUT<7> - @single_brd_lib.SINGLE_BRD	17C1 18A8	UART2_TXD	UART2_TXD - @single_brd_lib.SINGLE_BRD	3B5 15B5
OSC32I	OSC32I - @single_brd_lib.SINGLE_BRD	12B6	PP3V0_PROX_ALS	PP3V0_PROX_ALS - @single_brd_lib.SINGLE_BRD	11B8 11C8 12B5	SAGE_PANEL_VSTM_OUT<8>	SAGE_PANEL_VSTM_OUT<8> - @single_brd_lib.SINGLE_BRD	17C1 18A8	UART3_CTS_L	UART3_CTS_L - @single_brd_lib.SINGLE_BRD	3B5 21B4
OSC32O	OSC32O - @single_brd_lib.SINGLE_BRD	12A6	PP3V0_PROX_IR	PP3V0_PROX_IR - @single_brd_lib.SINGLE_BRD	11C2 12B5	SAGE_PANEL_VSTM_OUT<9>	SAGE_PANEL_VSTM_OUT<9> - @single_brd_lib.SINGLE_BRD	17C1 18A8	BT_UART_RTS_L	BT_UART_RTS_L - @single_brd_lib.RADIO_MLB(i594_page)	26B8 42B3
OVP_GATE	OVP_GATE - @single_brd_lib.SINGLE_BRD	16B7	PP3V0_USBMUX	PP3V0_USBMUX - @single_brd_lib.SINGLE_BRD	12B5 15C7	SAGE_PANEL_VSTM_OUT<10>	SAGE_PANEL_VSTM_OUT<10> - @single_brd_lib.SINGLE_BRD	17C1 18A8	UART3_RTS_L	UART3_RTS_L - @single_brd_lib.SINGLE_BRD	3B5 21B4
OVP_SW_EN_L	OVP_SW_EN_L	15B4 16B8	PP3V2_CODEC	PP3V2_CODEC - @single_brd_lib.SINGLE_BRD	10D3	SAGE_PANEL_VSTM_OUT<11>	SAGE_PANEL_VSTM_OUT<11> - @single_brd_lib.SINGLE_BRD	17B1 18A6	BT_UART_CTS_L	BT_UART_CTS_L - @single_brd_lib.RADIO_MLB(i594_page)	26B8 42B3
PBL_RUN_BB_HSIC1_RDY	PBL_RUN_BB_HSIC1_RDY	3A7 21D4	PP3V3_VIB	PP3V3_VIB - @single_brd_lib.SINGLE_BRD	8C6	SAGE_PANEL_VSTM_OUT<12>	SAGE_PANEL_VSTM_OUT<12> - @single_brd_lib.SINGLE_BRD	17B1 18A6	UART3_RXD	UART3_RXD - @single_brd_lib.SINGLE_BRD	3B5 21B4
PBL_RUN_BB_HSIC1_RDY	PBL_RUN_BB_HSIC1_RDY	26B6 26C1 26D8 30B2	PP5V0_USBCONN	PP5V0_USBCONN - @single_brd_lib.SINGLE_BRD	16C5 22D8	SAGE_PANEL_VSTM_OUT<13>	SAGE_PANEL_VSTM_OUT<13> - @single_brd_lib.SINGLE_BRD	17C1 18A6	UART3_RXD	UART3_RXD - @single_brd_lib.SINGLE_BRD	3B5 21B4
PMU_ADC_IN7	PMU_ADC_IN7 - @single_brd_lib.SINGLE_BRD	13C3 13C6	PP5V0_USHPROTECT	PP5V0_USHPROTECT - @single_brd_lib.SINGLE_BRD	12C8 16B8	SAGE_PANEL_VSTM_OUT<14>	SAGE_PANEL_VSTM_OUT<14> - @single_brd_lib.SINGLE_BRD	17C1 18A6	UART3_RXD	UART3_RXD - @single_brd_lib.SINGLE_BRD	3B5 21B4
PMU_AMUX_AY	PMU_AMUX_AY - @single_brd_lib.SINGLE_BRD	13C6 13D5 22C8	PP5V0_USPROT	PP5V0_USPROT - @single_brd_lib.SINGLE_BRD	15C2 16B8	SAGE_PANEL_VSTM_OUT<15>	SAGE_PANEL_VSTM_OUT<15> - @single_brd_lib.SINGLE_BRD	17C1 18A6	UART3_RXD	UART3_RXD - @single_brd_lib.SINGLE_BRD	3B5 21B4
PMU_AMUX_AY_CTRL	PMU_AMUX_AY_CTRL - @single_brd_lib.SINGLE_BRD	3C5 13D7	PP5V1_GRAPE_VDDH	PP5V1_GRAPE_VDDH - @single_brd_lib.SINGLE_BRD	13B3 17D7	SAGE_PANEL_VSTM_OUT<16>	SAGE_PANEL_VSTM_OUT<16> - @single_brd_lib.SINGLE_BRD	17C1 18A6	UART3_RXD	UART3_RXD - @single_brd_lib.SINGLE_BRD	3A5 21B4
PMU_AMUX_AY_R	PMU_AMUX_AY_R - @single_brd_lib.SINGLE_BRD	13D6	PP5V1_GRAPE_VDDH	PP5V1_GRAPE_VDDH - @single_brd_lib.SINGLE_BRD	13B3 17D7	SAGE_PANEL_VSTM_OUT<17>	SAGE_PANEL_VSTM_OUT<17> - @single_brd_lib.SINGLE_BRD	17C1 18A6	BT_UART_RXD	BT_UART_RXD - @single_brd_lib.RADIO_MLB(i594_page)	26B5 26B8 42C3
PMU_AMUX_BY	PMU_AMUX_BY - @single_brd_lib.SINGLE_BRD	13B6 13D5 22C8	PP5V7_LCD_AVDDH	PP5V7_LCD_AVDDH - @single_brd_lib.SINGLE_BRD	13B3 18C1 19B2	SAGE_PANEL_VSTM_OUT<18>	SAGE_PANEL_VSTM_OUT<18> - @single_brd_lib.SINGLE_BRD	17C1 18A6	UART4_RXD	UART4_RXD - @single_brd_lib.SINGLE_BRD	3A5 21B4
PMU_AMUX_BY_CTRL	PMU_AMUX_BY_CTRL - @single_brd_lib.SINGLE_BRD	3B5 13D7	PP5V7_LCD_AVDDH_CONN	PP5V7_LCD_AVDDH_CONN - @single_brd_lib.SINGLE_BRD	18C4	SAGE_PANEL_VSTM_OUT<19>	SAGE_PANEL_VSTM_OUT<19> - @single_brd_lib.SINGLE_BRD	17C1 18A6	WLAN_UART_RXD	WLAN_UART_RXD - @single_brd_lib.RADIO_MLB(i594_page)	26C8 42A4 42B4
PMU_AMUX_BY_R	PMU_AMUX_BY_R - @single_brd_lib.SINGLE_BRD	13D6	PP5V7_SAGE_AVDDH	PP5V7_SAGE_AVDDH - @single_brd_lib.SINGLE_BRD	13B1 17B5 17D4	SAGE_VBIAS	SAGE_VBIAS - @single_brd_lib.SINGLE_BRD	17B3	VCENTER	VCENTER - @single_brd_lib.SINGLE_BRD	12C7
PMU_DWI_CLK	PMU_DWI_CLK	13B6	PPN_ZO	PPN_ZO - @single_brd_lib.SINGLE_BRD	6B3	SAGE_VBIAS_DRAIN	SAGE_VBIAS_DRAIN - @single_brd_lib.SINGLE_BRD	17C4 19B6	VCPL_SWITCH	VCPL_SWITCH - @single_brd_lib.SINGLE_BRD	17A7
PMU_DWI_DI	PMU_DWI_DI	13B6	PP_BATT_VCC	PP_BATT_VCC - @single_brd_lib.SINGLE_BRD	8C7 12D8 14D7 19D7 21C5	SAGE_VBIAS_R	SAGE_VBIAS_R - @single_brd_lib.SINGLE_BRD	17D2 18A5	VDD_REF	VDD_REF - @single_brd_lib.SINGLE_BRD	13C3 13C6 15B5
PMU_DWI_DO	PMU_DWI_DO - @single_brd_lib.SINGLE_BRD	13B6	PP_BATT_VCC_CONN	PP_BATT_VCC_CONN - @single_brd.lib.RADIO_MLB(i594_page)	26D1 26D8 27B8 28C8 34C5	SAGE_VBST_OUTH	SAGE_VBST_OUTH - @single_brd.lib.SINGLE_BRD	17B3	USB_CONN_SNUB	USB_CONN_SNUB - @single_brd.lib.SINGLE_BRD	16B5
PMU IRQ_L	PMU IRQ_L	3B7 13B6	PP_L19_VBOOST	PP_L19_VBOOST - @single_brd.lib.SINGLE_BRD	14D5	SAGE_VBST_OUTL	SAGE_VBST_OUTL - @single_brd.lib.SINGLE_BRD	17B3	USB_RECT	USB_RECT - @single_brd.lib.RADIO_MLB(i594_page)	2B4
PMU_RESET_IN	PMU_RESET_IN - @single_brd.lib.SINGLE_BRD	13B6	PP_LDO14_2P65	PP_LDO14_2P65 - @single_brd.lib.SINGLE_BRD	16C2 21A4	SAGE_VCM_IN	SAGE_VCM_IN - @single_brd.lib.SINGLE_BRD	17B2 18A5	USB_VBUS_DETECT	USB_VBUS_DETECT - @single_brd.lib.RADIO_MLB(i594_page)	2B4 12C8
PNSV7_LCM_AVDDN_CONN	PNSV7_LCM_AVDDN_CONN	18C4	PP_LDO14_2P65	PP_LDO14_2P65 - @single_brd.lib.RADIO_MLB(i594_page)	41D5	SAGE_VCM_IN_CONN	SAGE_VCM_IN_CONN - @single_brd.lib.SINGLE_BRD	18A6 18A6	VDD_REF	VDD_REF - @single_brd.lib.SINGLE_BRD	13C5
PNSV7_SAGE_AVDDN	PNSV7_SAGE_AVDDN	17A5 17D4 18D1 19B8 19D1	PP_VCC_MAIN	PP_VCC_MAIN - @single_brd.lib.SINGLE_BRD	10D1 12C8 12D8 13B4 13C2	SAGE_VCPH	SAGE_VCPH - @single_brd.lib.SINGLE_BRD	17D2 18A5	VDD_RTC	VDD_RTC - @single_brd.lib.SINGLE_BRD	13C5
PP1V0	PP1V0 - @single_brd.lib.SINGLE_BRD	2C7 2D3 7B4 7D5 12A4	PP1V0_SRAM	PP1V0_SRAM - @single_brd.lib.SINGLE_BRD	5C7 12A4	SAGE_VCPH_CONN	SAGE_VCPH_CONN - @single_brd.lib.SINGLE_BRD	18A6 18A8	VREF	VREF - @single_brd.lib.SINGLE_BRD	10C4
PP1V1_CPU0	PP1V1_CPU0 - @single_brd.lib.SINGLE_BRD	5D8 12D5	PROX_FILTER	PROX_FILTER - @single_brd.lib.SINGLE_BRD	17C8	SAGE_VCPH_REF	SAGE_VCPH_REF - @single_brd.lib.SINGLE_BRD	17B4 18A5	VFLY_C	VFLY_C - @single_brd.lib.SINGLE_BRD	10C4
PP1V1_CPU0_FET	PP1V1_CPU0_FET - @single_brd.lib.SINGLE_BRD	12D4	PROX_RX_EN_1V8	PROX_RX_EN_1V8 - @single_brd.lib.SINGLE_BRD	11C8 17B5	SAGE_VCPH_REF_CONN	SAGE_VCPH_REF_CONN - @single_brd.lib.SINGLE_BRD	18A6 18A6	VFLY_F	VFLY_F - @single_brd.lib.SINGLE_BRD	10C4
PP1V1_CPU1	PP1V1_CPU1 - @single_brd.lib.SINGLE_BRD	5C8 12D3	PROX_RX_EN_CONN	PROX_RX_EN_CONN - @single_brd.lib.SINGLE_BRD	11C5	SAGE_VCP_L	SAGE_VCP_L - @single_brd.lib.SINGLE_BRD	17A7 17D1 18A5 18C6	VFLY_P	VFLY_P - @single_brd.lib.SINGLE_BRD	10C4
PP1V1_CPU1_FET	PP1V1_CPU1_FET - @single_brd.lib.SINGLE_BRD	12D2	PROX_TX_EN_1V8_L	PROX_TX_EN_1V8_L - @single_brd.lib.SINGLE_BRD	17B1 17B7	SAGE_VCP_LCONN	SAGE_VCP_LCONN - @single_brd.lib.SINGLE_BRD	18A6 18A8	VFLY_P	VFLY_P - @single_brd.lib.SINGLE_BRD	10C4
PP1V1_CPU2	PP1V1_CPU2 - @single_brd.lib.SINGLE_BRD	5D8 12D1	PROX_TX_EN_BUFF	PROX_TX_EN_BUFF - @single_brd.lib.SINGLE_BRD	11B2 17B2	SAGE_VCP_F	SAGE_VCP_F - @single_brd.lib.SINGLE_BRD	17D2	VFLY_P	VFLY_P - @single_brd.lib.SINGLE_BRD	10C4
PP1V1_RAID	PP1V1_RAID - @single_brd.lib.SINGLE_BRD	5D4 12C2	RADIO_ON_L	RADIO_ON_L - @single_brd.lib.SINGLE_BRD	3A7 21D4	SAGE_VCP_LCM	SAGE_VCP_LCM - @single_brd.lib.SINGLE_BRD	18C5	VFLY_P	VFLY_P - @single_brd.lib.SINGLE_BRD	10C4
PP1V1_SOC	PP1V1_SOC - @single_brd.lib.SINGLE_BRD	5D4 12C2	RCVR_N	RCVR_N - @single_brd.lib.SINGLE_BRD	9C4 11A8	SAGE_VCP_R	SAGE_VCP_R - @single_brd.lib.SINGLE_BRD	17D2	VFLY_P	VFLY_P - @single_brd.lib.SINGLE_BRD	10C4
PP1V2_CAMO_CONN	PP1V2_CAMO_CONN	2C6 4A6 4C7 4D3 12B5	RCVR_P	RCVR_P - @single_brd.lib.SINGLE_BRD	9C4 11B8	SAGE_VCP_REF	SAGE_VCP_REF - @single_brd.lib.SINGLE_BRD	17B4 18A5	VFLY_P	VFLY_P - @single_brd.lib.SINGLE_BRD	10C4
PP1V2_SDRAM	PP1V2_SDRAM - @single_brd.lib.SINGLE_BR										

D

C

B

A

D

C

B

A

Base Signal	Synonyms	Location([Zone][dir])	50_PDET_PAD	50_PDET_PAD - @single_brd_lib.RADIO_MLB	31D7	100_B5_B8_RX_MTCH_N - @single_brd_lib.RADIO_MLB	32C4	100_XCVR_DCS1800_RX_N - @single_brd_lib.RADIO_MLB	31B7 37C8
50_VBATT_IN	2G_VBATT_IN - @single_brd.lib.RADIO_MLB	36C4	50_PRI_ANT	50_PRI_ANT - @single_brd.lib.RADIO_MLB	37B1 41A5	100_B5_B8_RX_MTCH_P - @single_brd.lib.RADIO_MLB	32B4	100_XCVR_DCS1800_RX_P - @single_brd.lib.RADIO_MLB	31B7 37B8
50_3G_TX_B1_T	50_3G_TX_B1_T - @single_brd.lib.RADIO_MLB	38C8	50_RX_DCS	50_RX_DCS - @single_brd.lib.RADIO_MLB	37C4	100_BAND1_DUPLX_MATC 100_BAND1_DUPLX_MATCH_RX_N - H_RX_N	38C2	A0_FMCLK - @single_brd.lib.RADIO_MLB	28B3
50_3G_TX_B2_T	50_3G_TX_B2_T - @single_brd.lib.RADIO_MLB	39C8	50_RX_DCS_FIL	50_RX_DCS_FIL - @single_brd.lib.RADIO_MLB	37CS	100_BAND1_DUPLX_MATC 100_BAND1_DUPLX_MATCH_RX_P - H_RX_P	38C2	ADC_LDO6_RUIM_1V8 - @single_brd.lib.SINGLE_BRD	13B6 21C4
50_3G_TX_B5_T	50_3G_TX_B5_T - @single_brd.lib.RADIO_MLB	34C8	50_TXRX_B1_ASM	50_TXRX_B1_ASM - @single_brd.lib.RADIO_MLB	37C4 38B3	100_BAND1_DUPLX_RX_N 100_BAND1_DUPLX_RX_N -	38C3	ADC_LDO6_RUIM_1V8 - @single_brd.lib.RADIO_MLB	26D5
50_3G_TX_B8_T	50_3G_TX_B8_T - @single_brd.lib.RADIO_MLB	34D7	50_TXRX_B1_PAD_ANT	50_TXRX_B1_PAD_ANT - @single_brd.lib.RADIO_MLB	38B5	100_BAND1_DUPLX_RX_P 100_BAND1_DUPLX_RX_P -	38C3	ADC_LVS1 - @single_brd.lib.RADIO_MLB	13B6 21C4
50_3G_TX_B13_PA_T	50_3G_TX_B13_PA_T - @single_brd.lib.RADIO_MLB	35C6	50_TXRX_B1_PAD_MCH	50_TXRX_B1_PAD_MCH - @single_brd.lib.RADIO_MLB	38B5	100_BAND1_RX_N 100_BAND1_RX_N -	31B7 38C1	ADC_LVS1 - @single_brd.lib.RADIO_MLB	26D5
50_3G_TX_B13_T	50_3G_TX_B13_T - @single_brd.lib.RADIO_MLB	35C8	50_TXRX_B2_ASM	50_TXRX_B2_ASM - @single_brd.lib.RADIO_MLB	37B4 39C1	100_BAND1_RX_P 100_BAND1_RX_P -	31B7 38C1	ADC_SMPS1_MSMC_1V05 - @single_brd.lib.MSMC_1V05	13C6 21C4
50_ASM_ANT	50_ASM_ANT - @single_brd.lib.RADIO_MLB	37B2	50_TXRX_B2_PAD_ANT	50_TXRX_B2_PAD_ANT - @single_brd.lib.RADIO_MLB	39C4	100_BAND2_RX_N - @single_brd.lib.RADIO_MLB	31B7 39B1	ADC_SMPS1_MSMC_1V05 - @single_brd.lib.SINGLE_BRD	26D5
50_ASM_ANT_MCH	50_ASM_ANT_MCH - @single_brd.lib.RADIO_MLB	37B2	50_TXRX_B2_PAD_MCH	50_TXRX_B2_PAD_MCH - @single_brd.lib.RADIO_MLB	39C3	100_BAND2_RX_P - @single_brd.lib.RADIO_MLB	31B7 39C1	ADC_SMPS3_MSMB_1V8 - @single_brd.lib.SINGLE_BRD	13C6 21C4
50_B2_DUPLX_RX	50_B2_DUPLX_RX - @single_brd.lib.RADIO_MLB	39C4	50_TXRX_B4_ASM	50_TXRX_B4_ASM - @single_brd.lib.RADIO_MLB	37C4 38B4	100_BAND4_DUPLX_MATC 100_BAND4_DUPLX_MATCH_RX_N - H_RX_N	38B3	ADC_SMPS3_MSMB_1V8 - @single_brd.lib.RADIO_MLB	26D5
50_B2_RX_BAL	50_B2_RX_BAL - @single_brd.lib.RADIO_MLB	39C3	50_TXRX_B4_PAD_ANT	50_TXRX_B4_PAD_ANT - @single_brd.lib.RADIO_MLB	38B5	100_BAND4_DUPLX_MATC 100_BAND4_DUPLX_MATCH_RX_N - H_RX_P	38B2	AGG_CHANNEL - @single_brd.lib.RADIO_MLB	42A6 42B4
50_BAND1_TX_INT_OUT	50_BAND1_TX_INT_OUT - @single_brd.lib.RADIO_MLB	38C6	50_TXRX_B4_PAD_MCH	50_TXRX_B4_PAD_MCH - @single_brd.lib.RADIO_MLB	38B5	100_BAND4_DUPLX_RX_N 100_BAND4_DUPLX_RX_N -	38B4	ANT_SEL_0 - @single_brd.lib.RADIO_MLB	30C2 37C1
50_BAND1_TX_IN_IN	50_BAND1_TX_IN_IN - @single_brd.lib.RADIO_MLB	38C7	50_TXRX_B5_ASM	50_TXRX_B5_ASM - @single_brd.lib.RADIO_MLB	34B7 37C4	100_BAND4_DUPLX_RX_P - @single_brd.lib.RADIO_MLB	31C7 38B1	ANT_SEL_1 - @single_brd.lib.RADIO_MLB	26C3 30C2 37C1
50_BAND1_TX_PA_IN	50_BAND1_TX_PA_IN - @single_brd.lib.RADIO_MLB	38C6	50_TXRX_B5_PAD_ANT	50_TXRX_B5_PAD_ANT - @single_brd.lib.RADIO_MLB	34B5	100_BAND4_RX_N 100_BAND4_RX_N -	31C7 38B1	ANT_SEL_2 - @single_brd.lib.RADIO_MLB	26C1 30C2 37C1
50_BAND2_TX_INT_IN	50_BAND2_TX_INT_IN - @single_brd.lib.RADIO_MLB	39C7	50_TXRX_B5_PAD_MCH	50_TXRX_B5_PAD_MCH - @single_brd.lib.RADIO_MLB	34B6	100_BAND4_RX_P 100_BAND4_RX_P -	31C7 38B1	ANT_SEL_3 - @single_brd.lib.RADIO_MLB	30C2 37C1
50_BAND4_TX_IN	50_BAND4_TX_IN - @single_brd.lib.RADIO_MLB	38B7	50_TXRX_B8_ASM	50_TXRX_B8_ASM - @single_brd.lib.RADIO_MLB	34B1 37C4	100_BAND5_BAND8_RX_N 100_BAND5_BAND8_RX_N -	31C7 32C3	ANT_SEL_4 - @single_brd.lib.RADIO_MLB	30C2 37C1
50_BAND4_TX_INT_OUT	50_BAND4_TX_INT_OUT - @single_brd.lib.RADIO_MLB	38B6	50_TXRX_B8_PAD_ANT	50_TXRX_B8_PAD_ANT - @single_brd.lib.RADIO_MLB	34B3	100_BAND5_BAND8_RX_P 100_BAND5_BAND8_RX_P -	31C7 32B3	AP_HSIC1_RDY - AP_HSIC1_RDY -	3B7 21A4
50_BAND4_TX_PA_IN	50_BAND4_TX_PA_IN - @single_brd.lib.RADIO_MLB	38B6	50_TXRX_B8_PAD_MCH	50_TXRX_B8_PAD_MCH - @single_brd.lib.RADIO_MLB	34B2	100_BANDS_DUPLX_RX_N 100_BANDS_DUPLX_RX_N -	34AS	AP_HSIC1_RDY - AP_HSIC1_RDY -	26B6 26C1 26D8 30B2
50_BAND5_TX_INT_IN	50_BAND5_TX_INT_IN - @single_brd.lib.RADIO_MLB	34C7	50_TXRX_B13_ASM	50_TXRX_B13_ASM - @single_brd.lib.RADIO_MLB	37B4	100_BANDS_DUPLX_RX_P 100_BANDS_DUPLX_RX_P -	34AS	AP_HSIC3_RDY - AP_HSIC3_RDY -	3B5 21D1
50_BAND5_TX_INT_OUT	50_BAND5_TX_INT_OUT - @single_brd.lib.RADIO_MLB	34C6	50_TX_3G_B8_FILTER	50_TX_3G_B8_FILTER - @single_brd.lib.RADIO_MLB	34D7	100_BAND5_RX_N 100_BAND5_RX_N -	32B6 34A4	AP_HSIC3_RDY - AP_HSIC3_RDY -	26B8 42A4 42B3
50_BAND5_TX_PA_IN	50_BAND5_TX_PA_IN - @single_brd.lib.RADIO_MLB	34C5	50_TX_B2	50_TX_B2 - @single_brd.lib.RADIO_MLB	39C6	100_BAND5_RX_P 100_BAND5_RX_P -	32C6 34A4	AP_WAKE_MODEM - AP_WAKE_MODEM	3A7 21B4
50_BAND6_TX_INT_OUT	50_BAND6_TX_INT_OUT - @single_brd.lib.RADIO_MLB	34D6	50_TX_B4_MCH	50_TX_B4_MCH - @single_brd.lib.RADIO_MLB	38B8	100_BAND6_DUPLX_RX_N 100_BAND6_DUPLX_RX_N -	34B3	AP_WAKE_MODEM - AP_WAKE_MODEM	26D8 30B4
50_BAND6_TX_PA_IN	50_BAND6_TX_PA_IN - @single_brd.lib.RADIO_MLB	34D5	50_TX_G_HB_ASM	50_TX_G_HB_ASM - @single_brd.lib.RADIO_MLB	36B2 37B4	100_BAND6_DUPLX_RX_P 100_BAND6_DUPLX_RX_P -	34B3	B1B4_SELECT - B1B4_SELECT -	3B4 38D3
50_BAND13_DUPLX_ANT	50_BAND13_DUPLX_ANT - @single_brd.lib.RADIO_MLB	35C2	50_TX_G_HB_MCH	50_TX_G_HB_MCH - @single_brd.lib.RADIO_MLB	36C7	100_BAND8_RX_N 100_BAND8_RX_N -	32B6 34B2	B2_RX_BAL_TERM - B2_RX_BAL_TERM -	39B2
50_BAND13_DUPLX_TX	50_BAND13_DUPLX_TX - @single_brd.lib.RADIO_MLB	35C3	50_TX_G_HB_PAIN	50_TX_G_HB_PAIN - @single_brd.lib.RADIO_MLB	36C6	100_BAND8_RX_P 100_BAND8_RX_P -	32C6 34B2	BB_ERROR_FLAG - BB_ERROR_FLAG -	26C6 30C4
50_BAND13_PA_MATCH	50_BAND13_PA_MATCH - @single_brd.lib.RADIO_MLB	35C4	50_TX_G_HB_PAMCH	50_TX_G_HB_PAMCH - @single_brd.lib.RADIO_MLB	36B3	100_BAND13_DUPLX_MATC 100_BAND13_DUPLX_MATCH_RX_N - CH_RX_N	35C2	BB_HSIC1_REMOTE_WAKE - BB_HSIC1_REMOTE_WAKE -	3B7 21C4
50_BAND13_PA_OUT	50_BAND13_PA_OUT - @single_brd.lib.RADIO_MLB	35C4	50_TX_G_HB_PAOUT	50_TX_G_HB_PAOUT - @single_brd.lib.RADIO_MLB	36B4	100_BAND13_DUPLX_MATC 100_BAND13_DUPLX_MATCH_RX_P - CH_RX_P	35D2	BB_HSIC1_REMOTE_WAKE - BB_HSIC1_REMOTE_WAKE -	26C8 30B2
50_BAND13_TRX	50_BAND13_TRX - @single_brd.lib.RADIO_MLB	35C1 37B6	50_TX_G_LB_ASM	50_TX_G_LB_ASM - @single_brd.lib.RADIO_MLB	36B2 37B4	100_BAND13_DUPLX_RX_N 100_BAND13_DUPLX_RX_N -	35C3	BB_I2S_CLK - 45_I2S_CLK -	3D4 21C4
50_BAND13_TRX_MATCH	50_BAND13_TRX_MATCH - @single_brd.lib.RADIO_MLB	35C2	50_TX_G_LB_MCH	50_TX_G_LB_MCH - @single_brd.lib.RADIO_MLB	36B7	100_BAND13_DUPLX_RX_P 100_BAND13_DUPLX_RX_P -	35D3	BB_I2S_CLK - BB_I2S_CLK -	26C8 30B4
50_BAND13_TX_INT_IN	50_BAND13_TX_INT_IN - @single_brd.lib.RADIO_MLB	35C7	50_TX_G_LB_PAIN	50_TX_G_LB_PAIN - @single_brd.lib.RADIO_MLB	36B6	100_BAND13_RX_N 100_BAND13_RX_N -	31C7 35C1	BB_I2S_RXD - I2S1_DOUT -	3D4 21C4
50_BAND13_TX_INT_OUT	50_BAND13_TX_INT_OUT - @single_brd.lib.RADIO_MLB	35C6	50_TX_G_LB_PAMCH	50_TX_G_LB_PAMCH - @single_brd.lib.RADIO_MLB	36B3	100_BAND13_RX_P 100_BAND13_RX_P -	31C7 35D1	BB_I2S_RXD - BB_I2S_RXD -	26C8 30B4
50_BAND13_TX_PA_IN	50_BAND13_TX_PA_IN - @single_brd.lib.RADIO_MLB	35C5	50_TX_G_LB_PAOUT	50_TX_G_LB_PAOUT - @single_brd.lib.RADIO_MLB	36B4	100_BAND13_RX_MATCH_N - N -	37C7	BB_I2S_TXD - I2S1_DIN -	3D4 21C4
50_CM_TRAP_BS	50_CM_TRAP_BS - @single_brd.lib.RADIO_MLB	32C3	50_TX_PCS_1	50_TX_PCS_1 - @single_brd.lib.RADIO_MLB	39C5	100_BAND13_RX_MATCH_P - P -	37B7	BB_I2S_TXD - BB_I2S_TXD -	26C8 30B4
50_CPL_B1_B4_OUT	50_CPL_B1_B4_OUT - @single_brd.lib.RADIO_MLB	34C3 38C3	50_TX_PCS_2	50_TX_PCS_2 - @single_brd.lib.RADIO_MLB	39C5	100_DRX_B5_B8_SW_MATC 100_DRX_B5_B8_SW_MATCH_N - CH_N	40B3	BB_I2S_WS - I2S1_LRCLK -	3D4 21C4
50_CPL_B1_B4_TERM	50_CPL_B1_B4_TERM - @single_brd.lib.RADIO_MLB	38C4	50_UPPER_ANT_FEED	50_UPPER_ANT_FEED - @single_brd.lib.RADIO_MLB	41D8	100_DRX_B5_B8_SW_MATC 100_DRX_B5_B8_SW_MATCH_P - CH_P	40B3	BB_JTAG_RTCLK - BB_JTAG_RTCLK -	26C3 29B3
50_CPL_B5_B8_OUT	50_CPL_B5_B8_OUT - @single_brd.lib.RADIO_MLB	34C3 35B5	50_UPPER_MCH_0	50_UPPER_MCH_0 - @single_brd.lib.RADIO_MLB	41D7	100_DRX_B5_B8_SW_N -	40B4 40C2	BB_JTAG_TCK - BB_JTAG_TCK -	3B7 21D1
50_CPL_B13_OUT	50_CPL_B13_OUT - @single_brd.lib.RADIO_MLB	35B5 39B5	50_UPPER_MCH_1	50_UPPER_MCH_1 - @single_brd.lib.RADIO_MLB	41D6	100_DRX_B5_B8_SW_P -	40B4 40D2	BB_JTAG_TCK - BB_JTAG_TCK -	26B8 26C3 29B5
50_CPL_PDET	50_CPL_PDET - @single_brd.lib.RADIO_MLB	31D8 39C3	50_UPPER_MCH_2	50_UPPER_MCH_2 - @single_brd.lib.RADIO_MLB	41D4	100_DRX_B13_B17_MATC 100_DRX_B13_B17_MATCH_N - H_N	40A3	BB_JTAG_TDI - BB_JTAG_TDI -	3B7 21D1
50_DIVERSITY_SWITCH	50_DIVERSITY_SWITCH - @single_brd.lib.RADIO_MLB	40C6	50_UP_ANT_TEST	50_UP_ANT_TEST - @single_brd.lib.RADIO_MLB	37A2 41C1	100_DRX_B13_B17_MATC 100_DRX_B13_B17_MATCH_P - H_P	40B4	BB_JTAG_TDI - BB_JTAG_TDI -	26B8 26C3 29B5
50_DRX_ANT	50_DRX_ANT - @single_brd.lib.RADIO_MLB	37A2 40C7	50_UP_ANT_TEST_COAX	50_UP_ANT_TEST_COAX - @single_brd.lib.RADIO_MLB	41C3	100_DRX_B13_B17_SW_N -	40A4 40D2	BB_JTAG_TDO - BB_JTAG_TDO	3B7 21D1
50_DRX_ASM_MCH	50_DRX_ASM_MCH - @single_brd.lib.RADIO_MLB	40C6	50_WIFI_ANT_FD	50_WIFI_ANT_FD - @single_brd.lib.RADIO_MLB	42D5	100_DRX_B13_B17_SW_P -	40B4 40D2	BB_JTAG_TDO - BB_JTAG_TDO	26A8 26C3 29B3
50_DRX_B3_MATCH	50_DRX_B3_MATCH - @single								

8	7	6	5	4	3	2	1
D							
C							
B							
A							
BT_PCM_IN @single_brd_lib.RADIO_MLB 26B8 42B3 BT_PCM_OUT I2S3_DOUT @single_brd_lib.SINGLE_BRD 3C4 21B4 BT_PCM_SYNC I2S3_LRCLK @single_brd_lib.RADIO_MLB 26B8 42B3 BT_REG_ON BT_REG_ON @single_brd_lib.SINGLE_BRD 13B7 21C4 BT_UART_CTS_L UARTS_L @single_brd_lib.RADIO_MLB 26B8 26C1 42C7 BT_UART RTS_L @single_brd_lib.SINGLE_BRD 3B5 21B4 BT_UART RTS_L @single_brd_lib.RADIO_MLB 26B8 42B3 BT_UART_RXD UARTS_RXD @single_brd_lib.SINGLE_BRD 3A5 21B4 BT_UART_TXD UARTS_RXD @single_brd_lib.RADIO_MLB 3B5 21B4 BT_WAKE BT_WAKE @single_brd_lib.SINGLE_BRD 3B7 21B4 CLK32K_AP CLK32K_WIFI @single_brd_lib.RADIO_MLB 13B6 13C6 21B4 DCDC_EN DCDC_EN @single_brd_lib.RADIO_MLB 26B8 29A5 DCDC_MODE DCDC_MODE @single_brd_lib.RADIO_MLB 30B2 36D8 DCDC_OUT DCDC_OUT @single_brd_lib.RADIO_MLB 36D6 DCDC_PGND DCDC_PGND @single_brd_lib.RADIO_MLB 36C5 36C7 36D6 36D8 DEBUG_RST_L DEBUG_RST_L @single_brd_lib.RADIO_MLB 26D3 29B5 DEV_HSIC3_RDY DEV_HSIC3_RDY @single_brd_lib.SINGLE_BRD 3B5 21D1 DRX_BB_I_N DRX_BB_I_N @single_brd_lib.RADIO_MLB 30C8 31B7 DRX_BB_I_P DRX_BB_I_P @single_brd_lib.RADIO_MLB 30C8 31B7 DRX_BB_Q_N DRX_BB_Q_N @single_brd_lib.RADIO_MLB 30C8 31B7 DRX_BB_Q_P DRX_BB_Q_P @single_brd_lib.RADIO_MLB 30C8 31B7 DRX_MODE_SEL_A DRX_MODE_SEL_A @single_brd_lib.RADIO_MLB 30C2 40D7 DRX_MODE_SEL_B DRX_MODE_SEL_B @single_brd_lib.RADIO_MLB 30C2 40D7 DRX_MODE_SEL_C DRX_MODE_SEL_C @single_brd_lib.RADIO_MLB 30C2 40D7 EBI1_CAL EBI1_CAL @single_brd_lib.RADIO_MLB 29D1 GPIO_6 GPIO_6 @single_brd_lib.RADIO_MLB 42C6 GPIO_51 GPIO_51 @single_brd_lib.RADIO_MLB 26C3 30C2 GPIO_DEBUG_LED GPIO_DEBUG_LED @single_brd_lib.RADIO_MLB 26C3 30B4 GPSSYNC GPSSYNC @single_brd_lib.RADIO_MLB 31C3 GPS_BB_I_N GPS_BB_I_N @single_brd_lib.RADIO_MLB 30C8 31C4 GPS_BB_I_P GPS_BB_I_P @single_brd_lib.RADIO_MLB 30C8 31C4 GPS_BB_Q_N GPS_BB_Q_N @single_brd_lib.RADIO_MLB 30C8 31C4 GPS_BB_Q_P GPS_BB_Q_P @single_brd_lib.RADIO_MLB 30C8 31C4 GSM_PA_HB_EN GSM_PA_HB_EN @single_brd_lib.RADIO_MLB 30B4 36B5 GSM_PA_LB_EN GSM_PA_LB_EN @single_brd_lib.RADIO_MLB 30B4 36B5 HOST_WAKE_BB HOST_WAKE_AP @single_brd_lib.SINGLE_BRD 13B6 21D4 HOST_WAKE_BT HOST_WAKE_BT @single_brd_lib.RADIO_MLB 13B6 21B4 HOST_WAKE_WLAN HOST_WAKE_WLAN @single_brd_lib.RADIO_MLB 13B6 21B4 HSIC_DEVICE_RDY HSIC_DEVICE_RDY @single_brd_lib.RADIO_MLB 42A7 42B4 IREF IREF @single_brd_lib.RADIO_MLB 30C6 31D8 JTAG_SEL JTAG_SEL @single_brd_lib.RADIO_MLB 42C7 LAT_SW1_CTL LAT_SW1_CTL @single_brd_lib.SINGLE_BRD 16C5 21A4 MDM_CLK MDM_CLK @single_brd_lib.RADIO_MLB 28B2 29A5 OPT_2 OPT_2 @single_brd_lib.RADIO_MLB 28C7 PA_ID PA_ID @single_brd_lib.RADIO_MLB 28D3 PA_ON_B1B4 PA_ON_B1B4 @single_brd_lib.RADIO_MLB 30B4 38D3 PA_ON_B2 PA_ON_B2 @single_brd_lib.RADIO_MLB 30B4 39C3 PA_ON_B5 PA_ON_B5 @single_brd_lib.RADIO_MLB 30B4 34C2 PA_ON_B8 PA_ON_B8 @single_brd_lib.RADIO_MLB 30B4 34C2 PA_ON_B13 PA_ON_B13 @single_brd_lib.RADIO_MLB 30B4 35B7	PA_R0 @single_brd_lib.RADIO_MLB 26B8 42B3 PA_R1 @single_brd_lib.RADIO_MLB 3C4 21B4 PA_R1_VBP @single_brd_lib.RADIO_MLB 26B8 42B3 PBL_RUN_BB_HSIC1_RDY PBL_RUN_BB_HSIC1_RDY @single_brd_lib.SINGLE_BRD 3A7 21D4 BT_PCM_OUT I2S3_DIN @single_brd_lib.SINGLE_BRD 3C4 21B4 BT_PCM_OUT BT_PCM_OUT @single_brd_lib.RADIO_MLB 26B8 42B3 BT_PCM_SYNC I2S3_LRCLK @single_brd_lib.RADIO_MLB 3C4 21B4 BT_PCM_SYNC BT_PCM_SYNC @single_brd_lib.RADIO_MLB 26B8 42B3 BT_REG_ON BT_REG_ON @single_brd_lib.SINGLE_BRD 13B7 21C4 BT_UART_CTS_L UARTS_L @single_brd_lib.RADIO_MLB 26B8 26C1 42C7 BT_UART RTS_L @single_brd_lib.SINGLE_BRD 3B5 21B4 BT_UART RTS_L @single_brd_lib.RADIO_MLB 26B8 42B3 BT_UART_RXD UARTS_RXD @single_brd_lib.SINGLE_BRD 3A5 21B4 BT_UART_RXD BT_UART_RXD @single_brd_lib.RADIO_MLB 26B8 26B8 42C3 BT_UART_RXD UARTS_RXD @single_brd_lib.SINGLE_BRD 3B5 21B4 BT_UART_RXD BT_UART_RXD @single_brd_lib.RADIO_MLB 26B8 26B8 42C3 BT_UART_RXD UARTS_RXD @single_brd_lib.SINGLE_BRD 3B5 21B4 BT_UART_RXD BT_UART_RXD @single_brd_lib.RADIO_MLB 26B8 26B8 42C3 BT_WAKE BT_WAKE @single_brd_lib.SINGLE_BRD 3B7 21B4 CLK32K_AP CLK32K_WIFI @single_brd_lib.RADIO_MLB 13B6 13C6 21B4 DCDC_EN DCDC_EN @single_brd_lib.RADIO_MLB 26B8 29A5 DCDC_MODE DCDC_MODE @single_brd_lib.RADIO_MLB 30B2 36D8 DCDC_OUT DCDC_OUT @single_brd_lib.RADIO_MLB 36D6 DCDC_PGND DCDC_PGND @single_brd_lib.RADIO_MLB 36C5 36C7 36D6 36D8 DEBUG_RST_L DEBUG_RST_L @single_brd_lib.RADIO_MLB 26D3 29B5 DEV_HSIC3_RDY DEV_HSIC3_RDY @single_brd_lib.SINGLE_BRD 3B5 21D1 DRX_BB_I_N DRX_BB_I_N @single_brd_lib.RADIO_MLB 30C8 31B7 DRX_BB_I_P DRX_BB_I_P @single_brd_lib.RADIO_MLB 30C8 31B7 DRX_BB_Q_N DRX_BB_Q_N @single_brd_lib.RADIO_MLB 30C8 31C4 DRX_BB_Q_P DRX_BB_Q_P @single_brd_lib.RADIO_MLB 30C8 31C4 DRX_MODE_SEL_A DRX_MODE_SEL_A @single_brd_lib.RADIO_MLB 30C2 40D7 DRX_MODE_SEL_B DRX_MODE_SEL_B @single_brd_lib.RADIO_MLB 30C2 40D7 DRX_MODE_SEL_C DRX_MODE_SEL_C @single_brd_lib.RADIO_MLB 30C2 40D7 EBI1_CAL EBI1_CAL @single_brd_lib.RADIO_MLB 29D1 GPIO_6 GPIO_6 @single_brd_lib.RADIO_MLB 42C6 GPIO_51 GPIO_51 @single_brd_lib.RADIO_MLB 26C3 30C2 GPIO_DEBUG_LED GPIO_DEBUG_LED @single_brd_lib.RADIO_MLB 26C3 30B4 GPSSYNC GPSSYNC @single_brd_lib.RADIO_MLB 31C3 GPS_BB_I_N GPS_BB_I_N @single_brd_lib.RADIO_MLB 30C8 31C4 GPS_BB_I_P GPS_BB_I_P @single_brd_lib.RADIO_MLB 30C8 31C4 GPS_BB_Q_N GPS_BB_Q_N @single_brd_lib.RADIO_MLB 30C8 31C4 GPS_BB_Q_P GPS_BB_Q_P @single_brd_lib.RADIO_MLB 30C8 31C4 GSM_PA_HB_EN GSM_PA_HB_EN @single_brd_lib.RADIO_MLB 30B4 36B5 GSM_PA_LB_EN GSM_PA_LB_EN @single_brd_lib.RADIO_MLB 30B4 36B5 HOST_WAKE_BB HOST_WAKE_AP @single_brd_lib.SINGLE_BRD 13B6 21D4 HOST_WAKE_BT HOST_WAKE_BT @single_brd_lib.RADIO_MLB 13B6 21B4 HOST_WAKE_WLAN HOST_WAKE_WLAN @single_brd_lib.RADIO_MLB 13B6 21B4 HSIC_DEVICE_RDY HSIC_DEVICE_RDY @single_brd_lib.RADIO_MLB 42A7 42B4 IREF IREF @single_brd_lib.RADIO_MLB 30C6 31D8 JTAG_SEL JTAG_SEL @single_brd_lib.RADIO_MLB 42C7 LAT_SW1_CTL LAT_SW1_CTL @single_brd_lib.SINGLE_BRD 16C5 21A4 MDM_CLK MDM_CLK @single_brd_lib.RADIO_MLB 28B2 29A5 OPT_2 OPT_2 @single_brd_lib.RADIO_MLB 28C7 PA_ID PA_ID @single_brd_lib.RADIO_MLB 28D3 PA_ON_B1B4 PA_ON_B1B4 @single_brd_lib.RADIO_MLB 30B4 38D3 PA_ON_B2 PA_ON_B2 @single_brd_lib.RADIO_MLB 30B4 39C3 PA_ON_B5 PA_ON_B5 @single_brd_lib.RADIO_MLB 30B4 34C2 PA_ON_B8 PA_ON_B8 @single_brd_lib.RADIO_MLB 30B4 34C2 PA_ON_B13 PA_ON_B13 @single_brd_lib.RADIO_MLB 30B4 35B7	PP_SMPS4_RF2_2V0 @single_brd_lib.RADIO_MLB 30A4 34C2 35B7 36B5 38D3 PP_SMPS4_RF2_2V0 @single_brd_lib.RADIO_MLB 39D3 PP_SMPS5_DSP_1V05 @single_brd_lib.RADIO_MLB 30C2 34C2 35C7 38D3 PP_SYNC @single_brd_lib.RADIO_MLB BB_PP_SYNC - PP_VREG @single_brd_lib.RADIO_MLB 3A5 21C4 PP_VREG @single_brd_lib.RADIO_MLB 27D4 PP_VSW_S1 @single_brd_lib.RADIO_MLB 27C4 PP_VSW_S2 @single_brd_lib.RADIO_MLB 27C4 PP_VSW_S3 @single_brd_lib.RADIO_MLB 27C4 PP_VSW_S4 @single_brd_lib.RADIO_MLB 27B4 PP_VSW_SS @single_brd_lib.RADIO_MLB 27B3 PP_WL_BT_VDDIO_1V8 @single_brd_lib.RADIO_MLB 42CS PP_WL_BT_VDDIO_AP @single_brd_lib.RADIO_MLB 3C8 4C7 9B3 12B2 12C1 PP_WL_BT_VDDIO_AP @single_brd_lib.RADIO_MLB 26C8 42A7 42C4 PP_XO_1P8_FILT @single_brd_lib.RADIO_MLB 33A 33C3 PP_XO_1P8_FILT @single_brd_lib.RADIO_MLB 33A 33C3 PRX_B5_B8_1 @single_brd_lib.RADIO_MLB 30B2 32B4 PRX_BB_I_N @single_brd_lib.RADIO_MLB 30C8 31C7 PRX_BB_I_P @single_brd_lib.RADIO_MLB 30C8 31C7 PRX_BB_Q_N @single_brd_lib.RADIO_MLB 30C8 31C7 PRX_BB_Q_P @single_brd_lib.RADIO_MLB 30C8 31C7 PS_HOLD PS_HOLD - @single_brd_lib.RADIO_MLB 28C8 30B2 PS_HOLD_PMIC PS_HOLD_PMIC - RADIO_ON_L RADIO_ON_L - RADIO_ON_L RADIO_ON_L - REF_BY_P014_F2 REF_BY_P014_F2 - RESET_DET_L RESET_DET_L - RESET_DET_L @single_brd_lib.SINGLE_BRD 3A5 21D4 RESET_DET_L @single_brd_lib.RADIO_MLB 26C1 26D8 30B4 RESET_FMUL RESET_FMUL - RESET_FMUL @single_brd_lib.RADIO_MLB 13B7 21D4 RESET_FMUL @single_brd_lib.RADIO_MLB 26D3 26D8 28C8 RF_CLK RF_CLK - @single_brd_lib.RADIO_MLB 28B1 31D8 RF_RBIAS RF_RBIAS - 31D7 RF_RESET_L RF_RESET_L - RF_RESET_L @single_brd_lib.RADIO_MLB 2B7 12B2 13B6 15B4 18B1 RF_RESET_L @single_brd_lib.SINGLE_BRD 21D4 22B8 RREFEXT RREFEXT - @single_brd_lib.RADIO_MLB 29A5 RSVD RSVD - RTS_SSB1_PRX_DRX RTS_SSB1_PRX_DRX - 30B2 31C1 RTS_SSB1_TX_GPS RTS_SSB1_TX_GPS - 30B2 31C1 S1_GND S1_GND - @single_brd_lib.RADIO_MLB 27C3 27C7 28B6 S2_GND S2_GND - @single_brd_lib.RADIO_MLB 27C7 28B6 S3_GND S3_GND - @single_brd_lib.RADIO_MLB 27C3 27C7 28B6 S4_GND S4_GND - @single_brd_lib.RADIO_MLB 27C7 28B6 S5_GND S5_GND - @single_brd_lib.RADIO_MLB 27B3 27C8 28B6 SIMCRD_CLK_CONN SIMCRD_CLK_CONN - SIMCRD_CLK_CONN @single_brd_lib.RADIO_MLB 26A3 26A6 26C1 30C4 SIMCRD_IO_CONN SIMCRD_IO_CONN - SIMCRD_RST_CONN SIMCRD_RST_CONN - SIM_TRAY_DETECT SIM_TRAY_DETECT - SLEEP_CLK_32K SLEEP_CLK_32K - SPI2_CLK SPI2_CLK - SPI2_CS_L SPI2_CS_L - SPI2_CS_R SPI2_CS_R - SPI2_DATA_MOSI SPI2_DATA_MOSI - 30C4 41D5 SPI2_DATA_MOSI @single_brd_lib.RADIO_MLB 30C4 41D5 SPI_CLK SPI_CLK - @single_brd_lib.RADIO_MLB 30A8 30C4 SPI_CS_L SPI_CS_L - 30A6 30C4 SPI_DATA_MISO SPI_DATA_MISO - SPI_DATA_MISO @single_brd_lib.RADIO_MLB 30A6 30C4 SPI_DATA_MOSI SPI_DATA_MOSI - SPI_DATA_MOSI @single_brd_lib.RADIO_MLB 30A8 30C4 TX_BB_I_N TX_BB_I_N - 30C6 31C4 TX_BB_I_P TX_BB_I_P - 30C6 31C4 TX_BB_Q_N TX_BB_Q_N - 30C6 31C4 TX_BB_Q_P TX_BB_Q_P - 30C6 31C4 TX_GTR_THRESH TX_GTR_THRESH - VDDPX_BIAS VDDPX_BIAS - 28D3 29B6 VREF_DAC_BIAS VREF_DAC_BIAS - VSIM_VPP VSIM_VPP - 26A5 VTUNE_SHDR VTUNE_SHDR - 31C3 WAN_DIO WAN_DIO - WAN_DIO_RX_ON WAN_DIO_RX_ON - 30B4 31C4 WAN_GPRSNC WAN_GPRSNC - WAN_GPRSNC @single_brd_lib.RADIO_MLB 30B2 31C4 WAN_GP_DATA0 WAN_GP_DATA0 - WAN_GP_DATA0 @single_brd_lib.RADIO_MLB 30B2 31C4 WAN_GP_DATA1 WAN_GP_DATA1 - WAN_GP_DATA1 @single_brd_lib.RADIO_MLB 30B2 31C4	WAN_GP_DATA2 WAN_GP_DATA2 - WAN_BUCK_OUT WLAN_BUCK_OUT - 42C7 WLAN_CLK32K WLAN_CLK32K - 42C7 WLAN_HSIC3_RESUME WLAN_HSIC3_RESUME - 3B7 21A4 WLAN_REG_ON WIFI_REG_ON - WLAN_REG_ON WLAN_REG_ON - 26C1 26C4 42A4 42C7 WLAN_REG_ON_RC WLAN_REG_ON_RC - 42A7 WLAN_SR_VLXI WLAN_SR_VLXI - 42B7 WLAN_TX_BLANK WLAN_TX_BLANK - 30B2 42A4 WLAN_UART_RXD UART4_RXD - WLAN_UART_RXD WLAN_UART_RXD - 26B8 42A4 42B4 WLAN_UART_RXD UART4_RXD - WLAN_UART_RXD WLAN_UART_RXD - 26C8 42A4 42B4 XO_GND XO_GND - @single_brd_lib.RADIO_MLB 28A4 28B3 28B4 XO_REF XO_REF - @single_brd_lib.RADIO_MLB 31D7 XO_THERM_Y1 XO_THERM_Y1 - 28B4 XTAL19M_IN XTAL19M_IN - 28B4 XTAL19M_OUT XTAL19M_OUT - 28B4 XTAL19M_OUT XTAL19M_OUT - 28B4				

D

D

C

C

B

B

A

A

Title:	Cref Part Report
Design:	single_brd
Date:	Apr 30 16:27:24 2012
BS1	PCB_STANOFF single_brd[21B7]
BS2	PCB_STANOFF single_brd[21B7]
BS3	PCB_STANOFF single_brd[21B7]
BS4	PCB_STANOFF single_brd[21B7]
BS5	PCB_STANOFF single_brd[21B7]
C1	CAP_01005 single_brd[2A6]
C2	CAP_0201 single_brd[2C6]
C3	CAP_0204 single_brd[6D3]
C4	CAP_01005 single_brd[7D5]
C5	CAP_01005 single_brd[7D5]
C6	CAP_01005 single_brd[7D3]
C7	CAP_01005 single_brd[7D3]
C8	CAP_01005 single_brd[7B4]
C9	CAP_01005 single_brd[21C6]
C10	CAP_201 single_brd[12D5]
C11	CAP_0201 single_brd[14A1]
C12	CAP_01005 single_brd[16B6]
C13	CAP_01005 single_brd[16B6]
C14	CAP_01005 single_brd[16B5]
C15	CAP_01005 single_brd[16B5]
C16	CAP_0402-2 single_brd[12D8]
C17	CAP_01005 single_brd[18D3]
C18	CAP_01005 single_brd[18D3]
C19	CAP_01005 single_brd[18D3]
C20	CAP_01005 single_brd[2D6]
C21	CAP_01005 single_brd[2D6]
C22	CAP_01005 single_brd[2D6]
C23	CAP_0201 single_brd[2C7]
C24	CAP_01005 single_brd[2D6]
C25	CAP_0201 single_brd[2C6]
C26	CAP_01005 single_brd[9C6]
C27	CAP_0201-MUR single_brd[11B4]
C29	CAP_0201-MUR single_brd[14D3]
C30	CAP_0610 single_brd[5A7]
C31	CAP_201 single_brd[12A5]
C32	CAP_01005 single_brd[12D4]
C33	CAP_0402-2 single_brd[12D8]
C34	CAP_01005 single_brd[2D4]
C35	CAP_01005 single_brd[2C2]
C36	CAP_01005 single_brd[10B2]
C37	CAP_01005 single_brd[12B2]
C38	CAP_0201-MUR single_brd[15C7]
C39	CAP_01005 single_brd[15C5]
C40	CAP_0610 single_brd[4B7]
C41	CAP_01005 single_brd[14D7]
C42	CAP_0402-2 single_brd[4B7]
C43	CAP_0204 single_brd[4B7]
C44	CAP_01005 single_brd[11C2]
C45	CAP_01005 single_brd[8B4]
C46	CAP_0402-2 single_brd[12D7]
C47	CAP_0402 single_brd[12C3]
C48	CAP_0204 single_brd[4B7]
C49	CAP_0204 single_brd[4C7]
C50	CAP_0201-MUR single_brd[6C4]
C51	CAP_01005 single_brd[10C2]
C52	CAP_0402-2 single_brd[4C7]
C53	CAP_0204 single_brd[4C7]
C54	CAP_0610 single_brd[4B7]
C55	CAP_01005 single_brd[9B7]
C56	CAP_01005 single_brd[11B6]
C57	CAP_0610 single_brd[4C6]
C58	CAP_0402 single_brd[12D1]
C59	CAP_0204 single_brd[4C6]
C60	CAP_0204 single_brd[4B6]
C61	CAP_01005 single_brd[9B7]
C62	CAP_01005 single_brd[11C6]
C63	CAP_01005 single_brd[11C6]
C64	CAP_01005 single_brd[9B7]
C65	CAP_01005 single_brd[9B6]
C66	CAP_0402 single_brd[12C2]
C67	CAP_01005 single_brd[11B4]
C68	CAP_0610 single_brd[5D6]
C69	CAP_0402-2 single_brd[12C2]
C70	CAP_0402-2 single_brd[12C2]
C71	CAP_0402-1 single_brd[5A7]
C72	CAP_0204 single_brd[5C7]
C73	CAP_01005 single_brd[11B2]
C74	CAP_0610 single_brd[5C7]
C75	CAP_0610 single_brd[5C7]
C76	CAP_0402-2 single_brd[12C2]
C77	CAP_0402-2 single_brd[12C1]
C78	CAP_01005 single_brd[16A3]
C79	CAP_01005 single_brd[17C8]
C80	CAP_0610 single_brd[5C7]
C81	CAP_0204 single_brd[5C6]
C82	CAP_01005 single_brd[2D7]
C83	CAP_0204 single_brd[5D6]
C84	CAP_01005 single_brd[2D7]
C85	CAP_0402-2 single_brd[19D2]
C86	CAP_0402-1 single_brd[5A6]
C87	CAP_0204 single_brd[5C7]
C88	CAP_01005 single_brd[18B3]
C89	CAP_0204 single_brd[5C7]
C90	CAP_01005 single_brd[18B3]
C91	CAP_0204 single_brd[5C6]
C92	CAP_0402-1 single_brd[5B6]
C93	CAP_01005 single_brd[18C3]
C94	CAP_01005 single_brd[18C3]
C95	CAP_0201-1 single_brd[4B3]
C96	CAP_0402-1 single_brd[13B4]
C97	CAP_0204 single_brd[5D6]
C98	CAP_0204 single_brd[5C6]
C99	CAP_01005 single_brd[16A6]
C100	CAP_0204 single_brd[5C6]
C100_RF	radio_mlb[2A6A] single_brd[21]
C101	CAP_01005 single_brd[8C5]
C101_RF	radio_mlb[2A65] single_brd[21]
C102	CAP_01005 single_brd[16A5]
C103	CAP_0610 single_brd[5C7]
C104	CAP_0201 single_brd[5B6]
C105	CAP_01005 single_brd[10B7]
C106	CAP_01005 single_brd[4A8]
C107	CAP_0402-1 single_brd[5A6]
C108	CAP_01005 single_brd[4A8]
C109	CAP_0402-2 single_brd[12C1]
C110	CAP_0204 single_brd[5C6]
C111	CAP_01005 single_brd[4A7]
C112	CAP_0204 single_brd[5C6]

C113	CAP_01005 single_brd[4A7]
C114	CAP_01005 single_brd[4A6]
C115	CAP_0204 single_brd[5C6]
C116	CAP_0201 single_brd[5B6]
C117	CAP_01005 single_brd[4A6]
C118	CAP_01005 single_brd[4A5]
C119	CAP_0402-1 single_brd[5A5]
C120	CAP_01005 single_brd[5B6]
C121	CAP_0204 single_brd[5D6]
C122	CAP_0610 single_brd[5C6]
C123	CAP_0402-1 single_brd[13B2]
C124	CAP_0204 single_brd[5C6]
C125	CAP_0402 single_brd[13A1]
C126	CAP_0402-1 single_brd[5C7]
C127	CAP_0201 single_brd[16B6]
C128	CAP_0201 single_brd[5B6]
C129	CAP_0402 single_brd[18C2]
C130	CAP_01005 single_brd[7C7]
C131	CAP_0402 single_brd[13A2]
C132	CAP_01005 single_brd[13B2]
C133	CAP_0610 single_brd[5C7]
C134	CAP_0204 single_brd[5C6]
C135	CAP_0402-1 single_brd[13B1]
C136	CAP_01005 single_brd[6C5]
C137	CAP_201 single_brd[17B4]
C138	CAP_01005 single_brd[10C2]
C139	CAP_01005 single_brd[17B3]
C140	CAP_0402 single_brd[12C3]
C141	CAP_0402-1 single_brd[5D3]
C142	CAP_0402-1 single_brd[5D3]
C143	CAP_01005 single_brd[10B2]
C144	CAP_01005 single_brd[6C5]
C145	CAP_0402 single_brd[12D3]
C146	CAP_0201 single_brd[17B4]
C147	CAP_01005 single_brd[17B4]
C148	CAP_0201 single_brd[17A6]
C149	CAP_0402-1 single_brd[17D4]
C150	CAP_01005 single_brd[17B3]
C151	CAP_0204 single_brd[5C3]
C152	CAP_0610 single_brd[5D3]
C153	CAP_0204 single_brd[5D3]
C154	CAP_P_0603-LLP single_brd[17A4]
C155	CAP_0201 single_brd[17A4]
C156	CAP_0402-1 single_brd[17D3]
C157	CAP_0201 single_brd[17B3]
C158	CAP_0204 single_brd[5C3]
C159	CAP_01005 single_brd[12A8]
C160	CAP_0610 single_brd[5D3]
C161	CAP_0204 single_brd[5D3]
C162	CAP_0402-1 single_brd[17D3]
C163	CAP_201 single_brd[17D2]
C164	CAP_0402 single_brd[17A7]
C165	CAP_01005 single_brd[17D2]
C166	CAP_0204 single_brd[5C3]
C167	CAP_01005 single_brd[12A7]
C168	CAP_01005 single_brd[12A5]
C169	CAP_0204 single_brd[5D3]
C170	CAP_P_0402 single_brd[17B4]
C171	CAP_01005 single_brd[19B4]
C172	CAP_01005 single_brd[5C3]
C173	CAP_01005 single_brd[5C3]
C174	CAP_0204 single_brd[5C3]
C175	CAP_01005 single_brd[19B4]
C176	CAP_01005 single_brd[16B7]
C177	CAP_0204 single_brd[5D3]
C178	CAP_0201-MUR single_brd[6C4]
C179	CAP_01005 single_brd[19A5]
C179_RF	CAP_0402-1 radio_mlb[33C7] single_brd[21]
C180	CAP_0204 single_brd[6D4]
C181	CAP_01005 single_brd[19B5]
C182	CAP_0402-1 single_brd[6D3]
C183	CAP_01005 single_brd[6D3]
C184	CAP_0402-1 single_brd[6D3]
C185	CAP_0204 single_brd[6D3]
C186	CAP_0204 single_brd[6D3]
C187	CAP_0402-1 single_brd[6D2]
C188	CAP_0204 single_brd[6D2]
C189	CAP_01005 single_brd[19B3]
C190	CAP_402 single_brd[7D4]
C190_RF	CAP_0402 radio_mlb[33B5] single_brd[21]
C191	CAP_01005 single_brd[7D2]
C192	CAP_01005 single_brd[11D6]
C193	CAP_603 single_brd[11C2]
C194	CAP_0201-MUR single_brd[11C7]
C195	CAP_0402 single_brd[11C2]
C196	CAP_01005 single_brd[11C6]
C197	CAP_01005 single_brd[8B7]
C198	CAP_01005 single_brd[11D5]
C199	CAP_01005 single_brd[11B6]
C200	CAP_01005 single_brd[11C6]
C201	CAP_01005 single_brd[11C6]
C201_RF	CAP_0402 radio_mlb[27B7] single_brd[21]
C202	CAP_01005 single_brd[11C6]
C202_RF	CAP_0402 radio_mlb[27C7] single_brd[21]
C203	CAP_0402-1 single_brd[10D2]
C204	CAP_0402-1 single_brd[5A6]
C205	CAP_01005 single_brd[12C7]
C206	CAP_01005 single_brd[11B2]
C206_RF	CAP_0402 radio_mlb[27C6] single_brd[21]
C207	CAP_0100

D

D

C

C

B

B

A

A

C601_RF	CAP_01005	radio_mlb[30B7] single_brd[21]	IND_01005	radio_mlb[38C1] single_brd[21]	FILTRER_2P_01005	single_brd[11C2]
C606_RF	CAP_01005	radio_mlb[30A3] single_brd[21]	IND_02001	radio_mlb[38B5] single_brd[21]	FILTRER_2P_02001-1	single_brd[18D2]
C607_RF	CAP_01005	radio_mlb[30A3] single_brd[21]	C1501_RF	radio_mlb[39C8] single_brd[21]	FILTRER_2P_0201-1	single_brd[18D2]
C608_RF	CAP_01005	radio_mlb[30C6] single_brd[21]	C1502_RF	radio_mlb[39B7] single_brd[21]	FILTRER_2P_0201-1	single_brd[18D2]
C609_RF	CAP_01005	radio_mlb[31C6] single_brd[21]	C1503_RF	radio_mlb[39C6] single_brd[21]	FILTRER_2P_0201-1	single_brd[18C2]
C701_RF	CAP_01005	radio_mlb[31D8] single_brd[21]	C1504_RF	radio_mlb[39C2] single_brd[21]	FILTRER_2P_01005	single_brd[20D7]
C702_RF	CAP_01005	radio_mlb[31C4] single_brd[21]	C1505_RF	radio_mlb[39C4] single_brd[21]	FILTRER_2P_01005	single_brd[20C7]
C703_RF	CAP_01005	radio_mlb[31D7] single_brd[21]	C1507_RF	radio_mlb[39C5] single_brd[21]	FILTRER_2P_01005	single_brd[20C7]
C704_RF	CAP_01005	radio_mlb[31D7] single_brd[21]	C1508_RF	radio_mlb[39B3] single_brd[21]	FILTRER_2P_01005-1	single_brd[20C7]
C705_RF	CAP_01005	radio_mlb[31D8] single_brd[21]	C1509_RF	radio_mlb[39B2] single_brd[21]	FILTRER_2P_01005-1	single_brd[20C7]
C801_RF	CAP_01005	radio_mlb[32C6] single_brd[21]	C1510_RF	radio_mlb[39B1] single_brd[21]	FILTRER_2P_0201-1	single_brd[19D2]
C802_RF	CAP_01005	radio_mlb[32C6] single_brd[21]	C1511_RF	radio_mlb[39C5] single_brd[21]	FILTRER_2P_01005	single_brd[18B2]
C803_RF	CAP_01005	radio_mlb[32B5] single_brd[21]	C1512_RF	radio_mlb[39CS] single_brd[21]	FILTRER_2P_0201-1-MUR	radio_mlb[39C5] single_brd[21]
C804_RF	CAP_01005	radio_mlb[32C2] single_brd[21]	C1513_RF	radio_mlb[39CS] single_brd[21]	FILTRER_2P_01005	single_brd[18B2]
C805_RF	CAP_01005	radio_mlb[32B4] single_brd[21]	C1601_RF	radio_mlb[40D5] single_brd[21]	FILTRER_2P_0201-1	single_brd[18C2]
C806_RF	CAP_01005	radio_mlb[32C3] single_brd[21]	C1602_RF	radio_mlb[40D5] single_brd[21]	FILTRER_2P_01005	single_brd[14A5]
C901_RF	CAP_0201-MUR	radio_mlb[33D6] single_brd[21]	C1603_RF	radio_mlb[40D6] single_brd[21]	FILTRER_2P_01005	single_brd[14A5]
C910_RF	CAP_0201-MUR	radio_mlb[33D6] single_brd[21]	C1604_RF	radio_mlb[40D6] single_brd[21]	FILTRER_2P_01005	single_brd[14A5]
C913_RF	CAP_01005	radio_mlb[33D4] single_brd[21]	C1605_RF	radio_mlb[40D5] single_brd[21]	FILTRER_2P_01005	single_brd[14A5]
C915_RF	CAP_01005	radio_mlb[33D4] single_brd[21]	C1606_RF	radio_mlb[40C6] single_brd[21]	FILTRER_2P_0201	radio_mlb[40C6] single_brd[21]
C916_RF	CAP_0402-1	radio_mlb[33C5] single_brd[21]	C1607_RF	radio_mlb[40B6] single_brd[21]	FILTRER_2P_01005	single_brd[20B7]
C917_RF	CAP_01005	radio_mlb[33C4] single_brd[21]	C1608_RF	radio_mlb[40B6] single_brd[21]	FILTRER_2P_01005	single_brd[11C2]
C918_RF	CAP_0201-MUR	radio_mlb[33C4] single_brd[21]	C1609_RF	radio_mlb[40B4] single_brd[21]	FILTRER_2P_01005	single_brd[11C7]
C919_RF	CAP_01005	radio_mlb[33C4] single_brd[21]	C1610_RF	radio_mlb[40B3] single_brd[21]	FILTRER_2P_01005	single_brd[18B7]
C920_RF	CAP_01005	radio_mlb[33C3] single_brd[21]	C1611_RF	radio_mlb[40B4] single_brd[21]	FILTRER_2P_01005	single_brd[18B3]
C921_RF	CAP_0201	radio_mlb[33C6] single_brd[21]	C1612_RF	radio_mlb[40B3] single_brd[21]	FILTRER_2P_01005	single_brd[11A2]
C922_RF	CAP_0201	radio_mlb[33C6] single_brd[21]	C1613_RF	radio_mlb[40B6] single_brd[21]	FILTRER_2P_01005	single_brd[16C3]
C923_RF	CAP_01005	radio_mlb[33B4] single_brd[21]	C1614_RF	radio_mlb[40A6] single_brd[21]	FILTRER_2P_01005	single_brd[11B7]
C924_RF	CAP_0201-MUR	radio_mlb[33B6] single_brd[21]	C1615_RF	radio_mlb[40B4] single_brd[21]	FILTRER_2P_01005-1	single_brd[11B7]
C925_RF	CAP_0201	radio_mlb[33B6] single_brd[21]	C1701_RF	radio_mlb[41D5] single_brd[21]	FILTRER_2P_01005-1	single_brd[16A3]
C927_RF	CAP_0201-MUR	radio_mlb[33B6] single_brd[21]	C1702_RF	radio_mlb[41D7] single_brd[21]	FILTRER_2P_01005	single_brd[16C7]
C929_RF	CAP_01005	radio_mlb[33B4] single_brd[21]	C1703_RF	radio_mlb[41D5] single_brd[21]	FILTRER_2P_01005	single_brd[18B2]
C931_RF	CAP_01005	radio_mlb[33B4] single_brd[21]	C1704_RF	radio_mlb[41D5] single_brd[21]	FILTRER_2P_01005	single_brd[14A5]
C932_RF	CAP_402-LF	radio_mlb[33A4] single_brd[21]	C1707_RF	radio_mlb[41C6] single_brd[21]	FILTRER_2P_01005	single_brd[11C7]
C934_RF	CAP_0402	radio_mlb[33A4] single_brd[21]	C1712_RF	radio_mlb[41A6] single_brd[21]	FILTRER_2P_01005	single_brd[11C7]
C936_RF	CAP_01005	radio_mlb[33A6] single_brd[21]	C1717_RF	radio_mlb[41D4] single_brd[21]	FILTRER_2P_0201	radio_mlb[33D4] single_brd[21]
C937_RF	CAP_01005	radio_mlb[33A6] single_brd[21]	C1722_RF	radio_mlb[41D6] single_brd[21]	FILTRER_2P_01005	single_brd[14C7]
C938_RF	CAP_01005	radio_mlb[33A6] single_brd[21]	C1729_RF	radio_mlb[41D6] single_brd[21]	FILTRER_2P_01005	single_brd[18B2]
C939_RF	CAP_01005	radio_mlb[33A3] single_brd[21]	C1801_RF	radio_mlb[41D4] single_brd[21]	FILTRER_2P_01005-1	radio_mlb[33A3] single_brd[21]
C940_RF	CAP_0201	radio_mlb[33A4] single_brd[21]	C1802_RF	radio_mlb[41D4] single_brd[21]	FILTRER_2P_01005	single_brd[14A5]
C941_RF	CAP_0402-1	radio_mlb[33B7] single_brd[21]	C1803_RF	radio_mlb[41D5] single_brd[21]	FILTRER_2P_01005	single_brd[14A5]
C942_RF	CAP_01005	radio_mlb[33D3] single_brd[21]	C1804_RF	radio_mlb[41D5] single_brd[21]	FILTRER_2P_01005	single_brd[14A5]
C943_RF	CAP_01005	radio_mlb[33B6] single_brd[21]	C1805_RF	radio_mlb[41D5] single_brd[21]	FILTRER_2P_01005	single_brd[14B3]
C1001_RF	CAP_01005	radio_mlb[34D7] single_brd[21]	C1807_RF	radio_mlb[42C2] single_brd[21]	FILTRER_2P_0201	radio_mlb[34C4] single_brd[21]
C1002_RF	CAP_01005	radio_mlb[34D7] single_brd[21]	C1809_RF	radio_mlb[42B8] single_brd[21]	FILTRER_2P_01005	radio_mlb[34C4] single_brd[21]
C1003_RF	CAP_01005	radio_mlb[34B5] single_brd[21]	C1810_RF	radio_mlb[42A7] single_brd[21]	FILTRER_2P_01005	radio_mlb[34C4] single_brd[21]
C1005_RF	CAP_01005	radio_mlb[34C5] single_brd[21]	C1811_RF	radio_mlb[42C3] single_brd[21]	FILTRER_2P_0201	radio_mlb[34C5] single_brd[21]
C1007_RF	CAP_01005	radio_mlb[34C4] single_brd[21]	CL1	CLIP_3P_SM	single_brd[21A8]	LGA
C1008_RF	CAP_01005	radio_mlb[34C3] single_brd[21]	D1	DIODE_SCHOT_2P_SOD-9	single_brd[13B2]	LGA
C1012_RF	IND_0201	radio_mlb[34B5] single_brd[21]	D2	DIODE_SCHOT_SOD82	single_brd[13B3]	LLP
C1013_RF	CAP_0201	radio_mlb[34B2] single_brd[21]	D3	DIODE_SCHOT_LLP-DFN1	single_brd[8C6]	LLP
C1014_RF	CAP_01005	radio_mlb[34B2] single_brd[21]	D5	DIODE_SCHOT_SOD82	single_brd[19D3]	LLP
C1016_RF	CAP_01005	radio_mlb[34B2] single_brd[21]	D7	DIODE_SCHOT_SOD523	single_brd[12C6]	LLP
C1018_RF	CAP_01005	radio_mlb[34A4] single_brd[21]	DZ1	SUPPR_TRANSIENT_2P1	single_brd[8BS]	LLP
C1019_RF	CAP_01005	radio_mlb[34A4] single_brd[21]	DZ2	SUPPR_TRANSIENT_2P1	single_brd[8B6]	LLP
C1020_RF	CAP_01005	radio_mlb[34C4] single_brd[21]	J1	COD_M34ST_D4MT_SM1_M	single_brd[11C5]	LLP
C1021_RF	CAP_01005	radio_mlb[34C5] single_brd[21]	DZ3	SUPPR_TRANSIENT_2P1	single_brd[8B6]	LLP
C1022_RF	CAP_0201-MUR	radio_mlb[34C4] single_brd[21]	DZ4	ZENER_GDZ_0201	single_brd[17D4]	LLP
C1024_RF	CAP_01005	radio_mlb[34C5] single_brd[21]	DZ7	SUPPR_TRANSIENT_2P1	single_brd[8B7]	LLP
C1025_RF	CAP_01005	radio_mlb[34C5] single_brd[21]	DZ9	SUPPR_TRANSIENT_2P1	single_brd[16C6]	LLP
C1026_RF	CAP_01005	radio_mlb[34C5] single_brd[21]	DZ10	SUPPR_TRANSIENT_2P1	single_brd[16C6]	LLP
C1027_RF	CAP_01005	radio_mlb[35B8] single_brd[21]	DZ11	SUPPR_TRANSIENT_2P1	single_brd[16C6]	LLP
C1028_RF	CAP_01005	radio_mlb[35B6] single_brd[21]	DZ12	SUPPR_TRANSIENT_2P1	single_brd[16C6]	LLP
C1029_RF	CAP_01005	radio_mlb[35C6] single_brd[21]	DZ13	SUPPR_TRANSIENT_2P1	single_brd[16A5]	LLP
C1030_RF	CAP_01005	radio_mlb[35C5] single_brd[21]	DZ14	SUPPR_TRANSIENT_2P1	single_brd[16A5]	LLP
C1031_RF	CAP_01005	radio_mlb[35C5] single_brd[21]	DZ15	SUPPR_TRANSIENT_2P1	single_brd[16B5]	LLP
C1032_RF	CAP_01005	radio_mlb[35C6] single_brd[21]	DZ16	SUPPR_TRANSIENT_2P1	single_brd[11A5]	LLP
C1033_RF	CAP_01005	radio_mlb[35C6] single_brd[21]	DZ17	SUPPR_TRANSIENT_2P1	single_brd[11A5]	LLP
C1034_RF	CAP_01005	radio_mlb[35C6] single_brd[21]	DZ18	SUPPR_TRANSIENT_2P1	single_brd[16D3]	LLP
C1035_RF	CAP_01005	radio_mlb[35B8] single_brd[21]	DZ			

8	7	6	5	4	3	2	1
L1713_RF IND_01005 radio_mlb[41C4] single_brd[21] radio_mlb[41D3] single_brd[21]	R66 RES_01005 single_brd[14C4] R67 RES_01005 single_brd[2B6] R68 RES_01005 single_brd[5D7] R69 RES_01005 single_brd[14D2] R70 RES_01005 single_brd[12C7] R71 RES_01005 single_brd[2B3] R72 RES_01005 single_brd[4D7] R73 RES_01005 single_brd[4D7] R74 RES_01005 single_brd[6C2] R75 RES_01005 single_brd[14D2] R76 RES_01005 single_brd[3C7] R77 RES_01005 single_brd[5C7] R78 RES_01005 single_brd[6C7] R79 RES_01005 single_brd[17B5] R80 RES_01005 single_brd[17A6] R81 RES_01005 single_brd[8C7] R82 RES_01005 single_brd[6C6] R83 RES_01005 single_brd[15C7] R84 RES_01005 single_brd[15B7] R85 RES_01005 single_brd[11B3] R86 RES_01005 single_brd[17C5] R87 RES_01005 single_brd[13C2] R88 RES_01005 single_brd[15B3] R89 RES_01005 single_brd[18C6] R90 THERMISTER_0201 radio_mlb[26B6] single_brd[21]	R64 TP_TP_P6 single_brd[2D7] TP5 TP_TP_P6 single_brd[2AC7] TP6 TP_TP_P6 single_brd[22C7] TP7 TP_TP_P6 single_brd[22C7] TP8 TP_TP_P6 single_brd[22B7] TP9 TP_TP_P6 single_brd[22B7] TP10 TP_TP_P6 single_brd[22B4] TP11 TP_TP_P6 single_brd[22C6] TP12 TP_TP_P6 single_brd[22C6] TP13 TP_TP_P6 single_brd[17B4] TP14 TP_TP_P6 single_brd[17A4] TP15 TP_TP_P6 single_brd[17D5] TP16 TP_TP_P6 single_brd[17B4] TP17 TP_TP_P6 single_brd[17D5] TP18 TP_TP_P6 single_brd[22D4] TP19 TP_TP_P6 single_brd[22D4] TP20 TP_TP_P6 single_brd[22D4] TP21 TP_TP_P55 single_brd[2C4] TP22 TP_TP_P55 single_brd[22C4] TP23 TP_TP_P55 single_brd[2C4] TP24 TP_TP_P55 single_brd[22C4] TP25 TP_TP_P6 single_brd[22B4] TP26 TP_TP_P6 single_brd[22B4] TP27 TP_TP_P6 single_brd[22B4] TP28 TP_TP_P6 single_brd[22A6] TP29 TP_TP_P6 single_brd[22A6] TP32 TP_TP_P6 single_brd[22B4] U1 HSP_FCMP single_brd[2C5] U1 HSP_FCMP single_brd[3D4 3B7] U1 HSP_FCMP single_brd[4D2 4D6] U1 HSP_FCMP single_brd[5D2 5D5] U1 HSP_FCMP single_brd[6C7] U1 HSP_FCMP single_brd[7B4 7D7 7D8 7D4] U2 CBT11608AL_WCSP single_brd[15C8] U3 74AU2PG34_SOT1155 single_brd[3A3] U4 FLASH_XGXB_60LGA_LGA single_brd[6C4] U4 -12X17 U5 74AU2PG04_SOT1089 single_brd[17B2] U6 74LVC1G32GF_SOT891 single_brd[13A6] U7 AGATHA_I2_BGA single_brd[12D6] U7 AGATHA_I2_BGA single_brd[13D8 13CS] U8 AP3GDL20_LGA single_brd[14B2] U9 LREG_LP5907_USMD single_brd[8C7] U10 LREG_TPS799_WCSP single_brd[13B2] U11 74LVC2G07_SOT891 single_brd[13D6] U12 CUMULUS_BGA63_WLBGA single_brd[17C6] U13 LREG_LP5908_USMD single_brd[20B6] U14 SAGE2_1_CSP single_brd[17D3] U15 DDCD_IM34908_USMD single_brd[17D4] U16 AK89963_CSP single_brd[14AB8] U17 LM3563_BGA single_brd[13D6] U18 AP3DSHAD_LGA single_brd[14B7] U19 CS35L1198_WLCLSP single_brd[14D5] U20 LREG_LP5907_USMD single_brd[10D2] U21 CS42L65B_FCBGA single_brd[9C2 9C5] U21 CS42L65B_FCBGA single_brd[10C5] U22 TPS22924_CSP single_brd[12B2] U23 LM3534_BGA single_brd[13B3] U24 FME018_WLNPS105_BGA radio_mlb[27C6] single_brd[21] U25 FME018_WLNPS105_BGA radio_mlb[28D3 28B7 28B4 28C7] single_brd[21] U501_RF MODEM_MM9615_BGA radio_mlb[29D2 29B4 29D4 29C7] single_brd[21] U501_RF MODEM_MM9615_BGA radio_mlb[30D7 30C3] single_brd[21] U601_RF FLASH_MX25U163SE_WLC radio_mlb[30B7] single_brd[21] U701_RF TRANSCEIVER_BGA196_B radio_mlb[31D3 31D6] single_brd[21] U701_RF TRANSCEIVER_BGA196_B radio_mlb[33D2 33B2] single_brd[21] GA196 U701_RF GA196 U801_RF SWI_XM08082_LL radio_mlb[32C5] single_brd[21] U1001_RF AMP_SKY77487_LGA radio_mlb[34C5] single_brd[21] U1001_RF AMP_SKY77487_LGA radio_mlb[35C5] single_brd[21] U1002_RF FILTER_SAW_SAYEY710M radio_mlb[35C2] single_brd[21] U1201_RF CAOF57_LL radio_mlb[28D3] single_brd[21] U1201_RF XAT7100_WLP radio_mlb[36D7] single_brd[21] U1202_RF SKY77352_LGA radio_mlb[31C4] single_brd[21] U1301_RF LMSP3NQPD6_LGA radio_mlb[37C3] single_brd[21] U1401_RF AMP_SKY77486_LGA radio_mlb[38C5] single_brd[21] U1501_RF AMP_TQM666084_LGA radio_mlb[39C5] single_brd[21] U1601_RF SWI_HFQSWEWA127_LGA radio_mlb[40D5] single_brd[21] U1701_RF RF1102_12_MLCSP14 radio_mlb[41D5] single_brd[21] U1801_RF LBEE5ZHTWC501_LGA radio_mlb[42C6] single_brd[21] U1802_RF 74AII1PG08_SOT891 radio_mlb[42A7] single_brd[21] U1804_RF FIL_DIPLEXER_HILOCOM radio_mlb[42D2] single_brd[21] .6_PSM XW1 SHORT_SM single_brd[10B3] XW2 SHORT_SM single_brd[6D2] XW3 SHORT10LP1_WITH_ALTS single_brd[5D7] .SHORT-10L-0.1MM-SM XW4 SHORT10LP1_WITH_ALTS single_brd[10B6] .SHORT-10L-0.1MM-SM XW5 SHORT_SM single_brd[8B3] XW6 SHORT10LP1_WITH_ALTS single_brd[10A6] .SHORT-10L-0.1MM-SM XW7 SHORT_SM single_brd[11B3] XW8 SHORT10LP1_WITH_ALTS single_brd[5C7] .SHORT-10L-0.1MM-SM XW9 SHORT10LP1_WITH_ALTS single_brd[12A7] .SHORT-10L-0.1MM-SM XW10 SHORT_SM single_brd[12A3] XW11 SHORT10LP1_WITH_ALTS single_brd[12A6] .SHORT-10L-0.1MM-SM XW12 SHORT10LP2_WITH_ALT single_brd[21C6] S_SHORT-10L-0.25MM-S M XW13 SHORT_SM single_brd[16B2] XW14 SHORT10LP1_WITH_ALTS single_brd[12D4] .SHORT-10L-0.1MM-SM XW15 SHORT10LP1_WITH_ALTS single_brd[12A5] .SHORT-10L-0.1MM-SM XW16 SHORT10LP1_WITH_ALTS single_brd[5A3] .SHORT-10L-0.1MM-SM XW17 SHORT10LP1_WITH_ALTS single_brd[12D2] .SHORT-10L-0.1MM-SM XW18 SHORT10LP1_WITH_ALTS single_brd[12C3] .SHORT-10L-0.1MM-SM XW19 SHORT10LP1_WITH_ALTS single_brd[12C2] .SHORT-10L-0.1MM-SM XW20 SHORT10LP1_WITH_ALTS single_brd[12B2] .SHORT-10L-0.1MM-SM XW21 SHORT_SM single_brd[16B5] XW22 SHORT_SM single_brd[16B5] XW23 SHORT_SM single_brd[14C3] XW24 SHORT_SM single_brd[14C3] XW25 SHORT10LP1_WITH_ALTS single_brd[16C3] .SHORT-10L-0.1MM-SM XW26 SHORT_SM single_brd[8B4] XW27 SHORT_SM single_brd[11B4] XW28 SHORT_SM single_brd[13B6]	XW29 SHORT_SM single_brd[13B6] XW30 SHORT_SM single_brd[13B6] XW31 SHORT_SM single_brd[20B6] XW32 SHORT10LP1_WITH_ALTS single_brd[2B1] XW33 SHORT10LP1_WITH_ALTS single_brd[12A3] XW34 SHORT_SM single_brd[17B4] XW35 SHORT_SM single_brd[17A4] XW36 SHORT_SM single_brd[17D5] XW37 SHORT_SM single_brd[17B4] XW38 SHORT_SM single_brd[16C3] XW201_RF SHORT10LP1_WITH_ALTS radio_mlb[26D5] single_brd[21] XW202_RF SHORT10LP1_WITH_ALTS radio_mlb[26D5] single_brd[21] XW204_RF SHORT10LP1_WITH_ALTS radio_mlb[26D5] single_brd[21] XW206_RF SHORT10LP1_WITH_ALTS radio_mlb[26C5] single_brd[21] XW207_RF SHORT10LP25_WITH_ALT radio_mlb[27C2] single_brd[21] S_SHORT-10L-0.25MM-S M XW208_RF SHORT10LP25_WITH_ALT radio_mlb[28B6] single_brd[21] S_SHORT-10L-0.25MM-S M XW209_RF SHORT10LP25_WITH_ALT radio_mlb[27B2] single_brd[21] S_SHORT-10L-0.25MM-S M XW210_RF SHORT10LP1_WITH_ALTS radio_mlb[28B6] single_brd[21] S_SHORT-10L-0.25MM-S M XW211_RF SHORT10LP25_WITH_ALT radio_mlb[27B2] single_brd[21] S_SHORT-10L-0.25MM-S M XW212_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW213_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW214_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW215_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW216_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW217_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW218_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW219_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW220_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW221_RF SHORT10LP25_WITH_ALT radio_mlb[27B2] single_brd[21] S_SHORT-10L-0.25MM-S M XW222_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW223_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW224_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW225_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW226_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW227_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW228_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW229_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW230_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW231_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW232_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW233_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW234_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW235_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW236_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW237_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW238_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW239_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW240_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW241_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW242_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW243_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW244_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW245_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW246_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW247_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW248_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW249_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW250_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW251_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW252_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW253_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW254_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW255_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW256_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW257_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW258_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW259_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW260_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW261_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW262_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW263_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW264_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW265_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW266_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW267_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW268_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW269_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW270_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW271_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW272_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW273_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW274_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW275_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW276_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW277_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM XW278_RF SHORT10LP1_WITH_ALTS radio_mlb[33D6] single_brd[21] .SHORT-10L-0.1MM-SM				